SyncMaster

SERIES 5 | TB550

LED TV MONITOR

(MFM TV)

user manual

Thank you for purchasing this Samsung product.
To receive more complete service, please register your product at

www.samsung.com/register

Model _____ Serial No. _____

✎ If you have any questions, please call us at 1-800-SAMSUNG (1-800-726-7864) for assistance.

Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearances. Product design and specifications may be changed without notice.

Important Warranty Information Regarding Television Format Viewing

✎ See the warranty card for more information on warranty terms.

Wide screen format LED Displays (with 16:9 aspect ratios, the ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature with the images constantly in motion. Displaying stationary graphics and images on the screen, such as the dark sidebars on non-expanded standard format television video and programming, should be limited to no more than 5% of the total television viewing per week.

Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. Displaying stationary images that exceed the above guidelines can cause uneven aging of LED Displays that leave subtle, but permanent burned-in ghost images in the LED picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars. On LED models that offer picture sizing features, use these controls to view different formats as a full screen picture.

Be careful about the television formats you select and the length of time you view them. Uneven LED aging as a result of format selection and use, as well as burned in images, are not covered by your Samsung limited warranty.

- SAMSUNG ELECTRONICS NORTH AMERICAN LIMITED WARRANTY STATEMENT

  Subject to the requirements, conditions, exclusions and limitations of the original Limited Warranty supplied with Samsung Electronics (SAMSUNG) products, and the requirements, conditions, exclusions and limitations contained herein, SAMSUNG will additionally provide Warranty Repair Service in the United States on SAMSUNG products purchased in Canada, and in Canada on SAMSUNG products purchased in the United States, for the warranty period originally specified, and to the Original Purchaser only.

  The above described warranty repairs must be performed by a SAMSUNG Authorized Service Center. Along with this Statement, the Original Limited Warranty Statement and a dated Bill of Sale as Proof of Purchase must be presented to the Service Center. Transportation to and from the Service Center is the responsibility of the purchaser. Conditions covered are limited only to manufacturing defects in material or workmanship, and only those encountered in normal use of the product.

  Excluded, but not limited to, are any originally specified provisions for, in-home or on-site services, minimum or maximum repair times, exchanges or replacements, accessories, options, upgrades, or consumables.

  For the location of a SAMSUNG Authorized Service Center, please call toll-free:

  – In the United States : 1-800-SAMSUNG (1-800-726-7864)

  – In Canada : 1-800-SAMSUNG

Still image warning

Avoid displaying still images (such as jpeg picture files), still image elements (such as channel logos, stock or news bars at the screen bottom etc.), or programs in panorama or 4:3 image format on the screen. Constantly displaying still pictures can cause image burn-in on the screen, which will affect image quality. To reduce risk of this effect, please follow the recommendations below:

- Avoid displaying the same channel for long periods.
- Always try to display a full screen image.
- Reduce brightness and contrast to avoid the appearance of after-images.
- Use all product features designed to reduce image retention and screen burn. Refer to proper user manual section for details.

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Check the Symbol!

Note

Indicates additional information.

Step by Step Guide

Check here for instructions on how to open the relevant submenu within the OSD (on screen display).

Getting Started

Safety Precautions

Icons used for safety precautions

WARNING	Failing to follow the precautions marked with this sign may result in a serious injury or even a fatality.
CAUTION	Failing to follow the precautions marked with this sign may result in a personal injury or property damage.

Do not perform.

Must be followed.

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER ALL SERVICING TO QUALIFIED PERSONNEL.

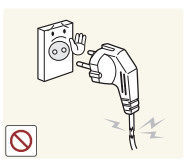
This symbol indicates that high voltage is present inside. It is dangerous to make any kind of contact with any internal part of this product.

This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

Power Related

✎ The following images are for your reference and may differ depending on models and countries.

⚠ Warning



Avoid using a damaged power cord or plug or a loose power outlet.

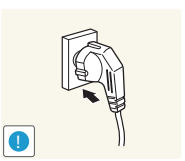
- Otherwise, it may result in electric shock or fire.

Avoid connecting multiple electric appliances to a single wall outlet.

- Otherwise, it may result in fire due to overheating of the wall outlet.

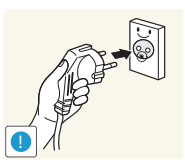
Avoid plugging in or unplugging the power supply with wet hands.

- Otherwise, it may result in electric shock.



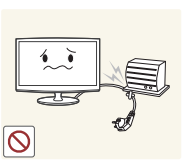
Plug the power plug in firmly.

- Otherwise, it may result in fire.



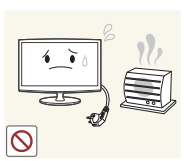
Make sure to connect the power cord to a grounded wall outlet (for insulation class 1 equipment only).

- Otherwise, it may result in electric shock or injury.



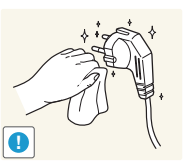
Avoid bending or twisting the power cord excessively and avoid placing heavy objects on the cord.

- Otherwise, it may result in electric shock or fire due to a damaged power cord.



Keep the power cord and the product away from a heater.

- Otherwise, it may result in electric shock or fire.

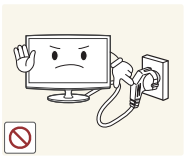


If the pins of the power plug or the wall outlet are covered in dust, clean it using a dry cloth.

- Otherwise, it may result in fire.

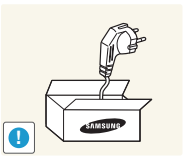
Getting Started

⚠ Caution



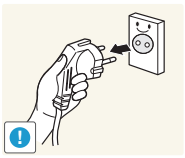
Avoid unplugging the power plug while the product is operating.

- Otherwise, it may damage the product due to electric shock.



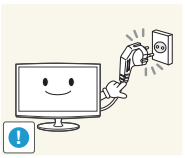
Make sure to use only the power cord supplied by our company. In addition, do not use the power cord of another electric appliance.

- Otherwise, it may result in electric shock or fire.



When unplugging the power plug from the wall outlet, make sure to hold it by the plug and not by the cord.

- Otherwise, it may result in electric shock or fire.



Connect the power plug to a wall outlet that can be easily reached.

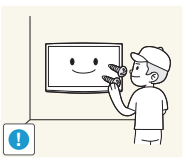
- When a problem occurs with the product, you must unplug the power plug to cut the power off completely. You cannot cut the power off completely using only the power button on the product.

Installation Related

⚠ Warning

Avoid placing burning candles, mosquitorepellentor cigarettes on the product.

- Otherwise, it may result in fire.

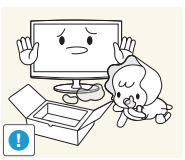


Ask an installation engineer or relevant company to install the product onto the wall.

- Otherwise, it may result in injury.
- Make sure to use the specified wall mount.

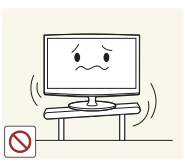
Avoid installing the product in a badly-ventilated location such as inside a bookshelf or closet.

- Otherwise, it may result in fire due to internal over-heating.



Keep the plastic bags used to pack the product away from children.

- If children place the plastic bags over their heads, they may suffocate.



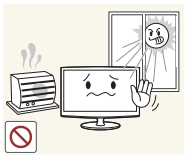
Avoid installing the product in a location that is unstable or exposed to excessive vibration such as on an unstable or slanted shelf.

- The product may fall and this may result in damage to the product or injury.
- If you use the product in a location exposed to excessive vibrations, it may result in a problem with the product or fire.

Avoid installing the product in a location exposed to dust, moisture (sauna), oil, smoke or water (rain drops) and installing it within a vehicle.

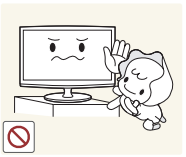
- This may result in electric shock or fire.

Getting Started



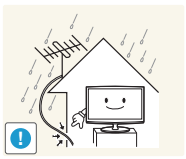
Avoid installing the product in a location exposed to direct sunlight and installing the product near a heat source such as a fireplace or heater.

- This may shorten the product life cycle or cause fire.



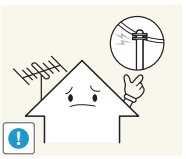
Avoid installing the product where children may reach it.

- If a child touches the product, the product may fall and this may result in injury.
- Since the front part is heavier, install the product on a flat and stable surface.



Bend the outdoor antenna cable downwards at the location where it comes in the house so that rainwater does not flow in.

- If rainwater enters the product, it may result in electric shock or fire.



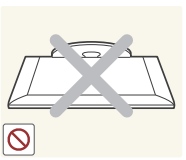
Install the antenna far away from any high voltage cables.

- If the antenna touches or falls onto a high voltage cable, it may result in electric shock or fire.

Caution

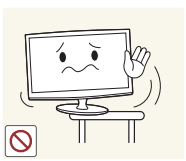
Do not let the product drop while moving it.

- This may result in a problem with the product or injury.



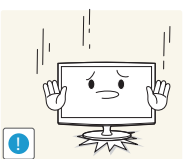
Do not place the product face down on the floor.

- This may damage the panel of the product.



When installing the product on a console or shelf, make sure that the front of the product does not protrude out of the console or shelf.

- Otherwise, this may cause the product to fall off and result in a malfunction or injury.
- Make sure to use a cabinet or shelf suitable to the size of the product.



When putting the product down, handle it gently.

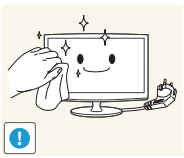
- Otherwise, it may result in a problem with the product or injury.

If the product is installed in a location where the operating conditions vary considerably, a serious quality problem may occur due to the surrounding environment. In this case, install the product only after consulting one of our service engineers about the matter.

- Places exposed to microscopic dust, chemicals, too high or low temperature, high humidity, airports or stations where the product is continuously used.

Cleaning Related

Warning



Before cleaning the product, unplug the power cord.

- Otherwise, it may result in electric shock or fire.

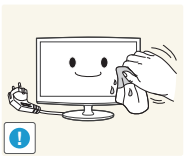
When cleaning the product, do not spray water directly over the product parts.

- Make sure that water does not enter the product.
- Otherwise, it may result in fire, electric shock or a problem with the product.

Caution

Avoid spraying cleansing agent directly onto the product.

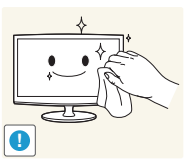
- This may result in discoloration or cracking of the exterior of the product or the panel coming off.



When cleaning the product, disconnect the power cord and clean the product with the supplied cleaning cloth.

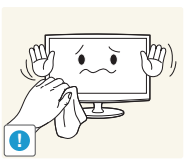
- Avoid using chemicals such as wax, benzene, alcohol, thinner, mosquitorepellent, fragrance, lubrication or cleansing agent when cleaning the product.

  This may result in the exterior being deformed or the print being removed.



If you can't get the product clean with just the supplied cloth, use a soft, damp cloth with a "monitor-exclusive cleansing agent" and wipe the product with it.

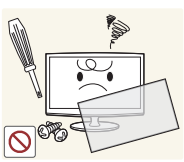
- If no monitor-exclusive cleansing agent is available, dilute a cleansing agent with water at a ratio of 1:10 before cleaning the product.



Since the exterior of the product is easily scratched, be sure to use the supplied cleansing cloth.

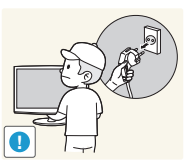
Usage Related

Warning



Since a high voltage runs through the product, never disassemble, repair or modify the product yourself.

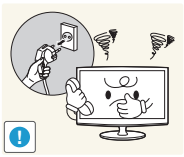
- Otherwise, it may result in fire or electric shock.
- If the product needs to be fixed, contact a service center.



To move the product, turn the power off and unplug the power cord, the antenna cable and any other wires connected to the product.

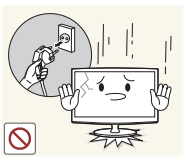
- Otherwise, it may result in electric shock or fire due to the damaged power cord.

Getting Started



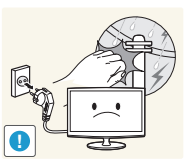
If the product generates a strange noise, a burning smell, or smoke, unplug the power plug immediately and contact a service center.

- Otherwise, it may result in electric shock or fire.



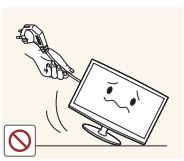
If you drop the product or the case is damaged, turn the power off and unplug the power cord. Contact a service center.

- Otherwise, it may result in fire or electric shock.



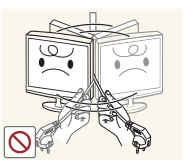
When thunder or lighting occurs, unplug the power cord and under no circumstance touch the antenna cable as this is dangerous.

- Otherwise, it may result in electric shock or fire.



Avoid moving the product by pulling the power cord or antenna cable.

- Otherwise, it may result in electric shock, fire or a problem with the product due to damage to the cable.

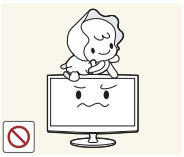


Avoid lifting up or moving the product by holding only the power cord or signal cable.

- Otherwise, it may result in electric shock, fire or a problem with the product due to damage to the cable.

Take care not to block the vent by a table cloth or curtain.

- Otherwise, it may result in fire due to internal overheating.

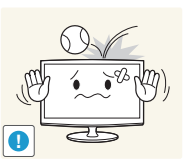


Avoid letting children hang or climb onto the product.

- Otherwise, it may result in the product falling and this may result in injury or death.

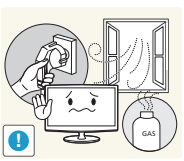
Avoid placing objects such as toys and cookies on top of the product.

- If a child hangs over the product to grab an object, the object or the product may fall and this may result in injury or even death.



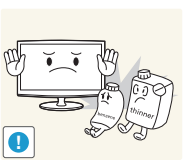
Avoid dropping an object over the product or cause impact to the product.

- Otherwise, it may result in electric shock or fire.



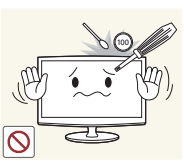
When a gas leak occurs, do not touch the product or the power plug and ventilate immediately.

- A spark may result in an explosion or fire.
- During a thunder or lighting storm, do not touch the power cord or antenna cable.



Avoid using or placing inflammable spray or objects near the product.

- This may result in an explosion or fire.



Avoid inserting metal objects such as a chopsticks, coins or hairpins, or inflammable objects into the product (the vents, ports, etc).

- If water or substances enters the product, turn the power off, unplug the power cord and contact a service center.
- Otherwise, it may result in a problem with the product, electric shock or fire.

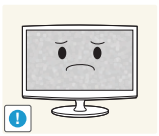
Getting Started

Avoid placing a liquid container such as a vase, flowerpot, beverage, cosmetics or drugs, or a metal object over the product.

- If water or substances enter the product, turn the power off, unplug the power cord and contact a service center.
- Otherwise, it may result in a problem with the product, electric shock or fire.

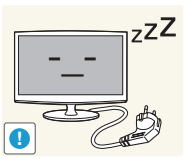
Do not press down hard on the product. The product may become deformed or damaged.

⚠ Caution



Displaying a still image for a long time may create a persistent image or stain on the screen.

- If you do not use the product for a long time, use the power-saving mode or set the screensaver to the moving picture mode.

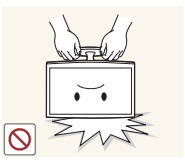


When not using the product for a long time such as leaving your home, unplug the power cord from the wall outlet.

- Otherwise, it may cause dust accumulation and result in fire caused by overheating or short circuit or result in an electric shock.

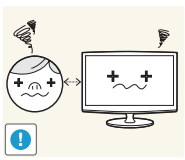
Set the appropriate resolution and frequency for the product.

- Otherwise, it may result in eye strain.



Avoid turning the product upside down or move the product holding only the stand.

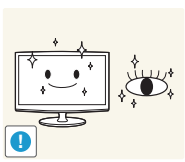
- This may cause the product to fall, resulting in damage to the product or injury.



Watching the product from too close a distance continuously may damage your eyesight.

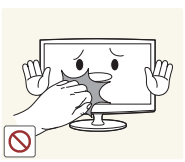
Avoid using a humidifier or cooker near the product.

- Otherwise, it may result in electric shock or fire.

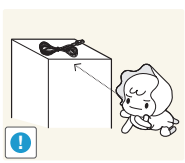


It is important to give your eyes some rest (5 minutes every hour) when viewing the product screen for long periods of time.

- This will alleviate any eye strain.



Since the display panel is hot after using it for a long time, do not touch the product.



Keep the small accessories in a location out of the reach of children.

Take care when adjusting the angle of the product or the height of the stand.

- If your hand or finger is caught, you may be injured.
- If the product is tilted excessively, the product may fall and this may result in injury.

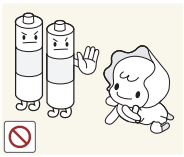
Getting Started

Avoid placing a heavy object over the product.

- Otherwise, it may result in a problem with the product or injury.

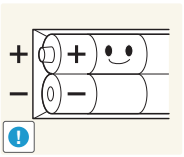
When using headphones or earphones, do not turn the volume too high.

- Having the sound too loud may damage your hearing.



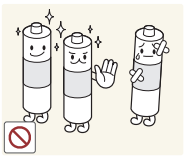
Be careful that children do not place the batteries in their mouths when removed from the remote control. Place the battery in a location that children or infants cannot reach.

- If children have had the battery in their mouths, consult your doctor immediately.



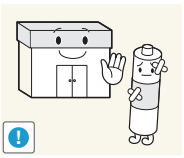
When replacing the batteries, insert them with right polarity (+, -).

- Otherwise, the battery may become damaged or it may cause fire, personal injury or damage due to leakage of the internal liquid.



Use only specified standard batteries. Do not use new and used batteries together.

- This may cause a battery to break or leak and may cause fire, injury, or contamination (damage).



The batteries (and rechargeable batteries) are not ordinary refuse and must be returned for recycling purposes. The customer is responsible for returning the used or rechargeable batteries for recycling.

- The customer can return used or rechargeable batteries to a nearby public recycling center or to a store selling the same type of the battery or rechargeable battery.

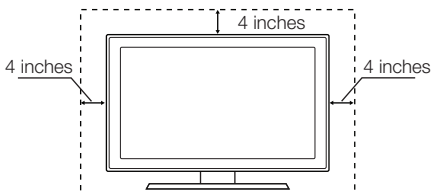
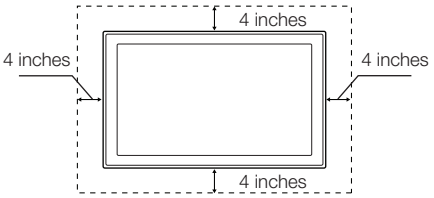
Getting Started

Providing Proper Ventilation for Your Product

When you install your product, maintain a distance of at least 4 inches between the product and other objects (walls, cabinet sides, etc.) to ensure proper ventilation. Failing to maintain proper ventilation may result in a fire or a problem with the product caused by an increase in its internal temperature.

✎ Whether you install your product using a stand or a wall-mount, we strongly recommend you use parts provided by Samsung Electronics only.

- If you use parts provided by another manufacturer, it may cause difficulties with the product or result in injury caused by the product falling.

Installation with a stand.	Installation with a wall-mount.
	

Other Warnings

✎ The actual appearance of the product may differ from the images in this manual, depending on the model.

✎ Be careful when you touch the product. Some parts can be somewhat hot.

List of Features

- SMART HUB: Your gateway to all your content, integrated in one place.
  - Provides diverse entertainment choices.
  - Lets you control your entertainment life with an easy-to-use, user friendly user interface.
  - Gives you easy access to diverse apps, with more being added every day.
  - Lets you customize your product by grouping and sorting apps to your taste.
- AllShare Play: Lets you access, view, or play photos, videos, or music located on USB devices, digital cameras, cell phones, and PCs. PCs and cell phones can be accessed wirelessly, through your wireless network.
- Anynet+ (HDMI-CEC): Allows you to control all connected Samsung devices that support Anynet+ with your Samsung product's remote.

Getting Started

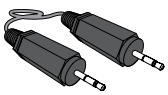
Accessories and Cables

✎ Please make sure the following items are included with your product. If any items are missing, contact your dealer.

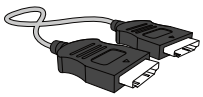
✎ The items' colors and shapes may vary depending on the model.

✎ Make sure that there are no accessories hidden behind or under packing materials after you open the box.

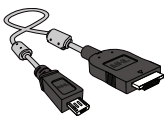
- Remote Control (AA59-00620A) & Batteries (AAA x 2)
- User Manual (CD)
- Warranty Card / Safety Guide / Quick Setup Guide
- Cleaning Cloth (BN63-01798B)
- Power Cord (3903-000598)
- Cable Holder (BN96-06529C)



Stereo Cable
(BN39-01286A)



HDMI Cable
(BN39-01583A)



MHL Cable
(BN39-01665A)

Input Cables (Sold Separately)

You will need one or more of these cables to connect your product to your antenna or cable outlet and your peripheral devices (Blu-ray players, DVD players, etc.)

To purchase the RS232 cable, contact www.SamsungParts.com.

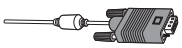
RS232 (AA39-00311A)

HDMI-DVI

Component

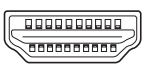
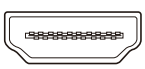
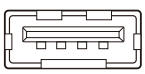
Composite (AV)

Coaxial (RF)



VGA

✎ Make sure you have the correct cable before plugging it in. Illustrations of common plugs and jacks are below.

	Cable Plugs	Ports / Jacks
HDMI		
USB		
Optical		

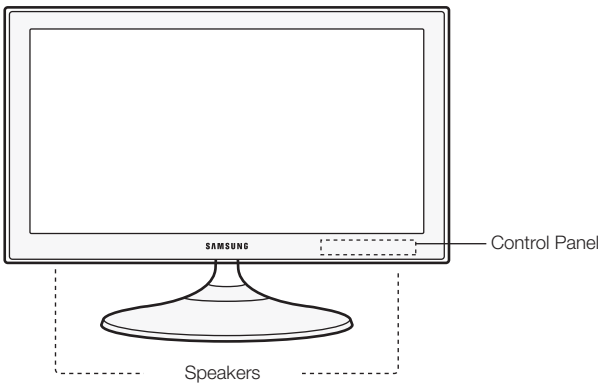
Warning

Do not plug cables in upside down.
Be sure to check the orientation of the plug before plugging it in.

Getting Started

Using the Control Panel

✎ The product color and shape may vary depending on the model.



SOURCE ⏎	Toggles between all the available input sources. In the on-screen menu, use this button as you would use the ⏎ button on the remote control.
MENU	Displays an on-screen menu, the OSD (on screen display) of your product's features.
– VOL +	Adjusts the volume. In the OSD, use the **– VOL +** buttons as you would use the ◀ and ▶ buttons on the remote control.
∨ CH ∧	Changes the channels. In the OSD, use the **∨ CH ∧** buttons as you would use the ▼ and ▲ buttons on the remote control.
⏻ (Power)	Turns the product on or off.
Remote control sensor	Aim the remote control towards this spot on the product.
Power Indicator	Blinks and turns off when the power is on and lights up in standby mode.

Standby mode

Your product enters Standby mode when you turn it off and continues to consume a small amount of electric power. To be safe and to decrease power consumption, do not leave your product in standby mode for long periods of time (when you are away on vacation, for example). It is best to unplug the power cord.

Getting Started

Using Smart Hub

Smart Hub provides easy, on-screen access to four functions that let you manage and access channels, set favorite channels, access photos, videos, or music on USB devices, cameras, and PCs, select video sources, and set the product to turn on automatically when a show you want to watch is on. The five functions are listed below:

- Channel: Lets you manage channels, select favorite channels, add channels to and delete channels from the Added Ch. list (the channels that appear when you press the ∨ CH ∧ button).
- Web Browser: Lets you browse the Internet.
- Schedule Manager: Lets you schedule shows and channels for viewing.
- Source: Lets you select a connected external video source to view.
- AllShare Play: Lets you access, view, or play photos, videos, or music located on USB devices, digital cameras, cell phones, and PCs. PCs and cell phones can be accessed wirelessly, through your wireless network.

Smart Hub also provides an easy-to-use gateway to a host of on-line media and entertainment including apps from the Samsung Apps store, streaming videos and movies, kids sites, and more.

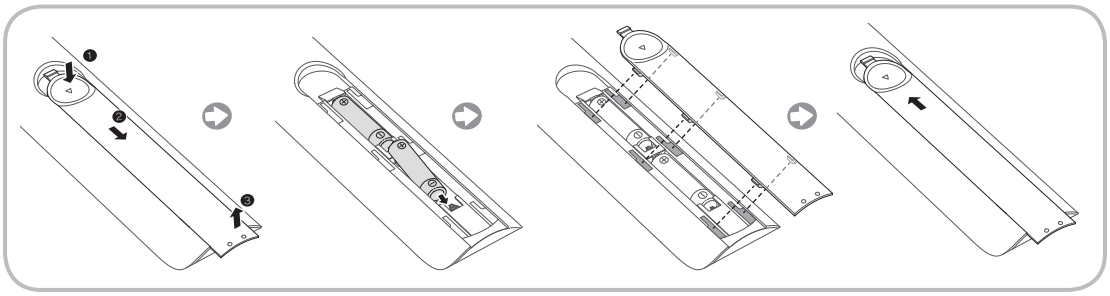
✎ To access Smart Hub, press the button on your remote.

✎ For more information about Smart Hub, see page 88.

The Standard Remote Control

Installing batteries (Battery size: AAA)

Match the polarity of the batteries to the symbols in the battery compartment.



✎ NOTE

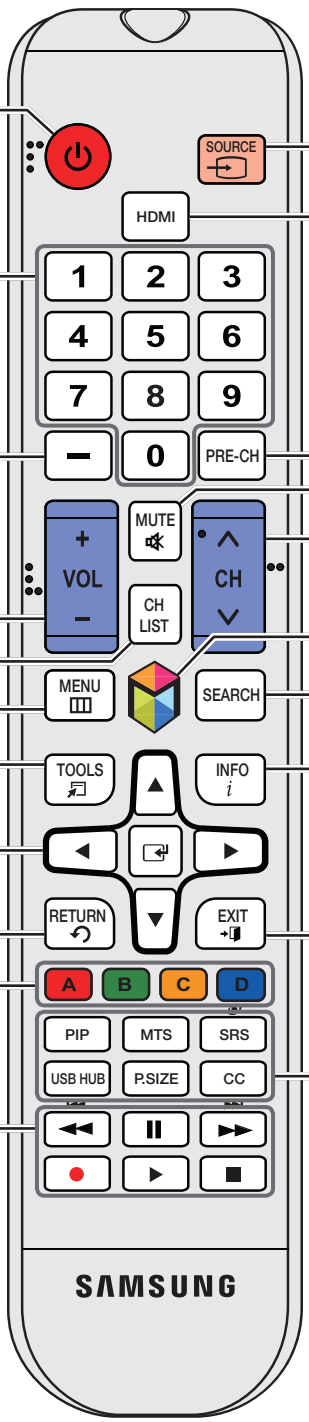
- Install the batteries so that the polarity of the batteries (+/-) matches the illustration in the battery compartment.
- Use the remote control within 23 feet of the product.
- Bright light may affect the performance of the remote control. Avoid using it near fluorescent lights or neon signs.
- The color and shape of the remote may vary depending on the model.

Getting Started

The Standard Remote Control Buttons

Learn where the function buttons are on your remote. Especially note SOURCE, MUTE, VOL, CH, MENU, TOOLS, ☐, INFO, CH LIST, RETURN, and EXIT.

✎ This remote control has Braille points on the Power, Channel, and Volume buttons and can be used by visually impaired persons.



Turns the product on and off.

Displays and selects the available video sources. (page 29)

Selects the HDMI mode directly.

Gives direct access to channels.

Press to select additional digital channels being broadcast by the same digital station. For example, to select channel '54-3', press '54', then press '-' and '3'.

Returns to the previous channel.

Cuts off the sound temporarily.

Changes channels.

Adjusts the volume.

Displays channel lists on the screen. (page 46)

Brings up the Smart Hub applications. (page 88)

Opens the OSD (Menu).

Starts recommended search word and search function. (page 100)

Quickly select frequently used functions. Use this button in a specific feature.

Displays information on the product screen.

Moves the cursor, selects the on-screen menu items, and changes the values seen on the TV's menu.

Returns to the previous menu.

Exits the menu.

Use these buttons according to the directions on TV's screen.

Use these buttons in a specific feature.

PIP: Turns the PIP on or off. (page 78)

MTS: Press to choose stereo, mono, or Separate Audio Program (SAP broadcast). (page 58)

SRS: Turns the SRS TruSurround HD on or off. (pages 38, 58)

USB HUB: You can set the Connect USB Hub to function by choosing TV or PC. (page 82)

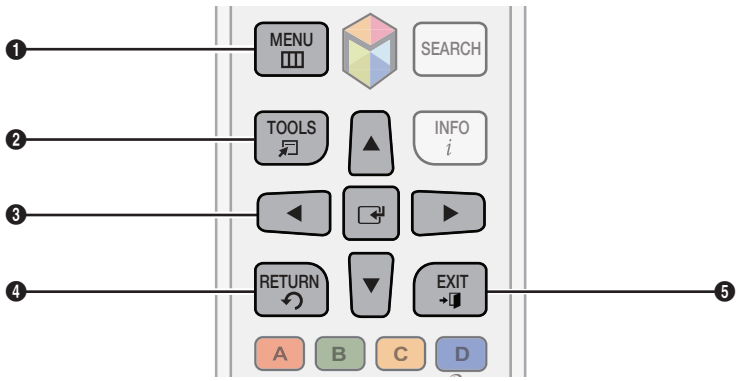
P.SIZE: Lets you select the Picture Size. (pages 34, 52)

CC: Displays digital subtitles. (page 80)

Getting Started

How to Navigate Menus

Your product's Main and Tools menus contains functions that let you control the product's features. For example, in the Main menu you can change the size and configuration of the picture, its brightness, its contrast and so on. There are also functions that let you control the product's sound, channel configuration, energy use, and a host of other features. To access the main, on-screen menu, press the MENU button on your remote. To access Tools menus, press the TOOLS button. Tools menus are available when the TOOLS menu Icon is displayed on the bottom right of the screen



1. MENU button: Displays the main on-screen menu.
2. TOOLS button: Displays the Tools menus when available.
3. and Direction buttons: Use the Direction buttons to move the cursor and highight an item. Use the button to select an item or confirm the setting.
4. RETURN button: Returns to the previous menu.
5. EXIT button: Exits the on-screen menu.

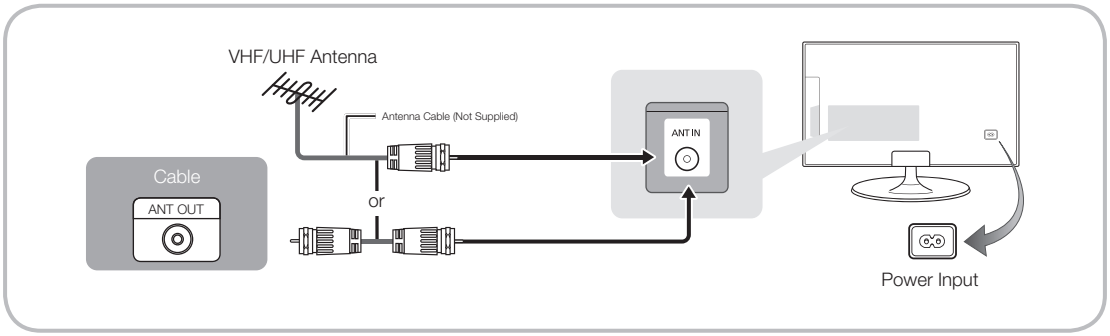
How to Operate the Main Menu (OSD - On Screen Display)

The access steps may differ depending on the menu option you select.

1	MENU	The main menu options appear on the screen: Picture, Sound, Channel, Network, System, Support.
2	▲ / ▼	Select a main menu option on the left side of the screen with the ▲ or ▼ button.
3		Press to access the sub-menus.
4	▲ / ▼	Select the desired submenu with the ▲ or ▼ button.
5	▲ / ▼ / ◀ / ▶	Adjust the value of an item with the ◀, ▶, ▲, or ▼ button. The adjustment in the OSD may differ depending on the selected menu.
6		Press to confirm the selection.
7	EXIT	Press EXIT.

Getting Started

Connecting the Power Cord and the Antenna or Cable Connection



✎ Plug the power cord into a wall outlet only after you have made all other connections.

✎ If you are connecting your product to a cable or satellite box using HDMI, Component, or Composite connections, you do not need to connect the ANT IN jack to an antenna or a cable connection.

✎ Use caution when you move or swivel the product if the antenna cable is tightly connected. You could break the antenna jack off the product.

Getting Started

Configuring the Basic Settings in Initial Setup

When you turn the product on for the first time, a sequence of screens and on-screen prompts will assist you in configuring the product's basic settings. Plug the power cord into a wall outlet, and then press the ⏻ button to turn on the product.

✎ Setup is available only when the Source is set to TV. See "Changing the Input Source" (page 29).

✎ To return to the previous step in the Setup sequence, select Previous.

✎ If you are not using a cable box or satellite box, make sure you have connected the product to an antenna or cable connection before you turn on the product. See page 19 for instructions.

✎ If you want to configure a network connection, make sure you've connected the Samsung Wireless LAN Adapter or a LAN cable to your TV. See pages 60 and 61 for instructions.

1	Menu Language: Select a Language.	After you press the ⏻ button, the Start screen appears. Select Next to continue. The Menu Language screen appears. Select the menu language you want using your remote, and then select Start. The product will display on-screen menus using the language you select beginning with the next step in the Setup process.
2	Use Mode: Select the Home Use Mode.	On the Use Mode screen, select the Home Use mode using your remote, and then select Next. The Network Settings screen appears. ✎ Store Demo mode is for retail environments only. If you select Store Demo, some functions will not work, and the product will reset all functions to their factory default after a certain period of time. For more information about Store Demo, go to the end of this section.
3	Network Settings: Configure the network settings ✎ To configure later, select Skip. You can set up the network connection later using the on-screen Network menu.	To configuring your network settings, select Next using your remote, and then go to 3A - Wireless Network or 3B - Wired Network on the next page. If you do not know your network configuration information or want to configure the settings later, or do not have a network, select Skip, and then go to 6 - Auto Program (1) on page 22. To configure network settings later, refer to the Network Connection sections in this manual (pages 60 and 61).

3A	**Wireless Network**	**1.** The product searches for and then displays all the wireless networks within range. When done, it displays a list of the networks. In the list of networks, move the Highlight to select a network, and then select Next. If the selected network requires a Security Key, the Security Key screen appears. ✎ If you have a WPS(PBC) compatible router, select WPS(PBC) instead, and then follow the directions on the screen. When done, go to Step 4. **2.** Enter your network security key or WPS PIN using your remote. ✎ Enter numbers and letters using your remote. • If you are using the standard remote, you can enter numbers by pressing the number buttons on the remote. • To enter a letter, move the Highlight to the letter, and then select it. You can enter numbers in the same fashion if you choose. ✎ To display capital letters (or redisplay small letters if capital letters are displayed), select Caps or Shift. ✎ To display symbols and punctuation, select ★. To redisplay letters, select ★ again. **3.** When done, select Next if you have entered a security key or WPS PIN if you have entered a WPS PIN. **4.** The product checks the wireless connection. If the connection is successful, the You are connected to the Internet. If you have any problems using online services, please contact your Internet Service Provider. message appears. Select Next, and then go to 4 Software Upgrade Step. ✎ If the connection fails, select Previous, repeat Step 1 and 2, carefully re-enter your security key or WPS PIN, then repeat Steps 3 and 4. If it fails again, select Next on the “Connection Failed” screen, and then go to 6 - Auto Program (1) on the next page. Configure your network later through Network Settings in the product’s Menu. For more information, refer to the Network Connection sections in this manual (pages 60 and 61).
3B	**Wired Network**	The product checks the network connection, then displays the You are connected to the Internet. If you have any problems using online services, please contact your Internet Service Provider. message appears. Select Next. The Software Upgrade screen appears.

4	Software Upgrade: Update the software to the latest version ✎ To update later, select Skip.	When Network Settings is complete, your product will check for a new software version automatically. If new software is available, the product downloads and installs the new software. When the download is complete, select Next. ✎ If you want to upgrade later, select Skip. For more information, refer to Software Update section of this manual (page 85) ✎ This may take some time, depending on your network status. ✎ You can only upgrade software if your product has an active network connection. ✎ If no new update software is available, a no new updates message appears on the screen. Select OK.
5	Terms of Service Agreement	The Terms of Service Agreement screen appears. ✎ The screen can take a few seconds to display. The General Disclaimer screen appears. Select Agree. The Privacy Policy screen appears. Select Agree. ✎ To use Smart Hub, you should select Agree for the Terms of Service Agreement.
6	Auto Program (1): Select where your product signal comes from.	Select the appropriate option for your product using your remote, and then select Next. • I use an aerial cable to connect to TV.: Select if you have an antenna or a cable connection without a set-top box. If you select this option, go to 7 - Auto Program (2) Step. • I use a set-top box.: Select if you have a satellite or cable set-top box. You do not need to run Auto Program. If you select this option, go to 9 - Clock on the next page.
7	Auto Program (2): Select the search options.	1. Select Air or Cable using your remote. A check appears on your selection. When done, select Next. You can check both if you have both connected. 2. If you selected Air, go to 8 - Auto Program (3). 3. If you selected Cable, you'll go to the cable system screen. Select Digital Cable System. The option window appears. Select the correct cable signal format; STD, HRC, or IRC. Most cable systems use STD (Standard). Repeat the same process with Analog Cable System. 4. When done, select Next.

8	Auto Program (3): Channel memorization	Channel memorization stars. Channel memorization can take up to 45 minutes, depending on your cable system. For more information, refer to Auto Program section of this manual. (page 48) ✎ Select Stop at any time to halt the memorization process.
9	Clock: Set the Clock	Select Auto or Manual, and then select Next. ✎ If you selected I use a set-top box. in 6 - Auto Program (1), you can only set the current time and date manually, using your remote. **Auto** If you selected Auto, the product will automatically download the correct time from a digital channel. The Time Zone screen will appear. Select your Time Zone, and then select Next. The DST (Daylight Savings Time) screen will appear. The DST function sets the time ahead one hour to adjust the clock for Daylight Savings Time. Select On if you want to turn the DST adjustment on. Select Off to turn off the DST adjustment. You can also turn the DST function on through the product's on screen menu (Menu → System → Time → Clock → DST). **Manual** If you selected Manual, you'll go to the Clock screen. Select Date or Time. You can set the current date and time using your remote. When done setting the Date and Time, select Next.
10	Setup Complete	Review the Setup data, and then select Close to finish. ✎ The completed settings are displayed.

If You Want to Rerun Setup...

Menu → System → Setup

If You Want to Turn the Store Demo Mode On or Off.

To set or unset Store Demo mode outside of Setup, press the volume button on the product. When you see the volume in the OSD, press and hold MENU button on the product for 5 seconds.

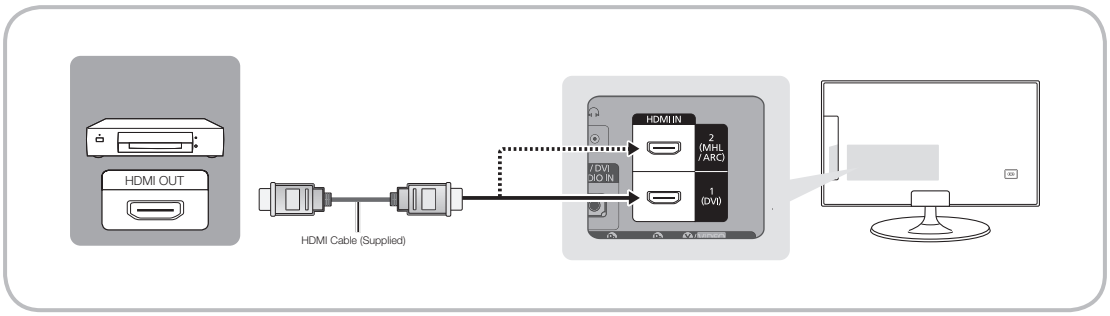
Connections

Connecting to AV Devices (Blu-ray Players, DVD Players, etc.)

Using an HDMI Cable for an HD connection (up to 1080p, HD digital signals)

For the best quality HD picture, we recommend using an HDMI connection.

Use with DVD players, Blu-ray players, HD cable boxes, and HD Set-Top-Box satellite receivers.



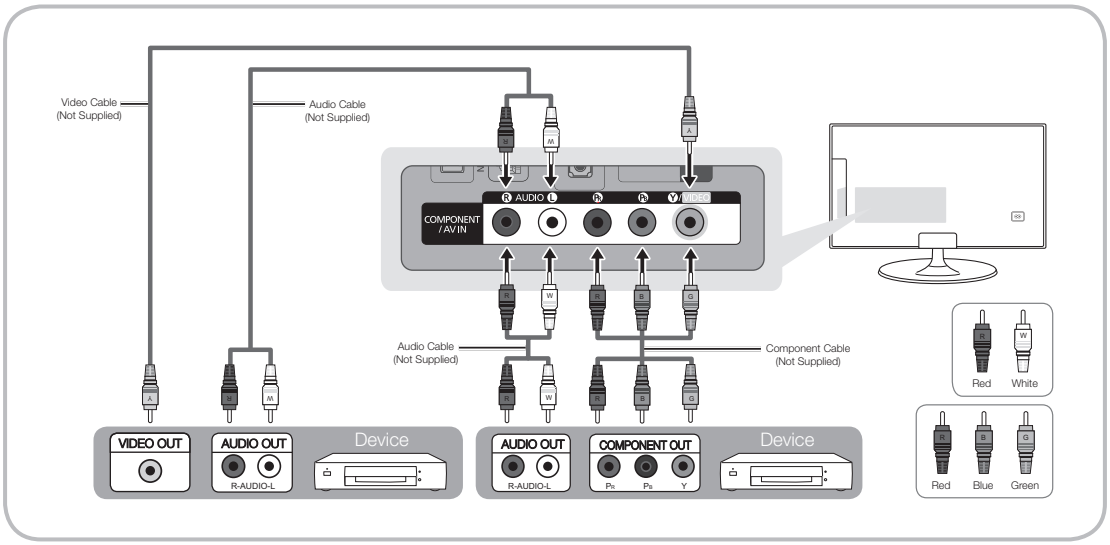
✎ **HDMI IN 1 (DVI)**, **HDMI IN 2 (MHL / ARC)**

- For the best picture and audio quality, connect digital devices to the product using HDMI cables.
- An HDMI cable supports digital video and audio signals, and does not require an audio cable.
  - To connect the product to a digital device that does not support HDMI output, use an HDMI to DVI cable and audio cables.
- If you connect an external device to the product that uses an older version of HDMI, the video and audio may not work. If this occurs, ask the manufacturer of the device about the HDMI version and, if it is out of date, request an upgrade.
- Be sure to purchase a certified HDMI cable. Otherwise, the picture may not display or a connection error may occur.
- We recommend using a basic high-speed HDMI cable or an HDMI cable that is Ethernet compatible. Note that this product does not support the Ethernet function via HDMI.
- This product supports the ARC (Audio Return Channel) functions via an HDMI cable. Note that the ARC function is supported by the **HDMI IN 2 (MHL / ARC)** port only.
- The ARC function allows digital audio to output via the **HDMI IN 2 (MHL / ARC)** port on the product. It can be enabled only when the product is connected with an audio receiver that supports the ARC function.
- This product supports the Mobile High-Definition Link (MHL) function via an HDMI-MHL cable. Note that the MHL function is supported by the **HDMI IN 2 (MHL / ARC)** port only.
- The MHL function lets you display a mobile device's screen via the **HDMI IN 2 (MHL / ARC)** port on the product. It can be enabled only when the product is connected with a mobile device that supports the MHL function.
- When you use MHL devices via a MHL cable, Picture Size is set to Screen Fit automatically. But if you use MHL devices via an HDMI cable, Picture Size is not set to Screen Fit automatically. To view an original size, select Screen Fit in the Picture Size menu (Menu → Picture → Picture Size).
- If you use MHL devices via an HDMI cable, The TV will be recognized as the HDMI input. In this case, the TV may work differently than when you use MHL devices via a MHL cable.

Connections

Using a Component Cable (up to 1080p HD signals) or an Audio/Video Cable (480i analog signals only)

Use with DVD players, Blu-ray players, cable boxes, STB satellite receivers, VCRs.



✎ For better picture quality, we recommend the Component connection over the A/V connection.

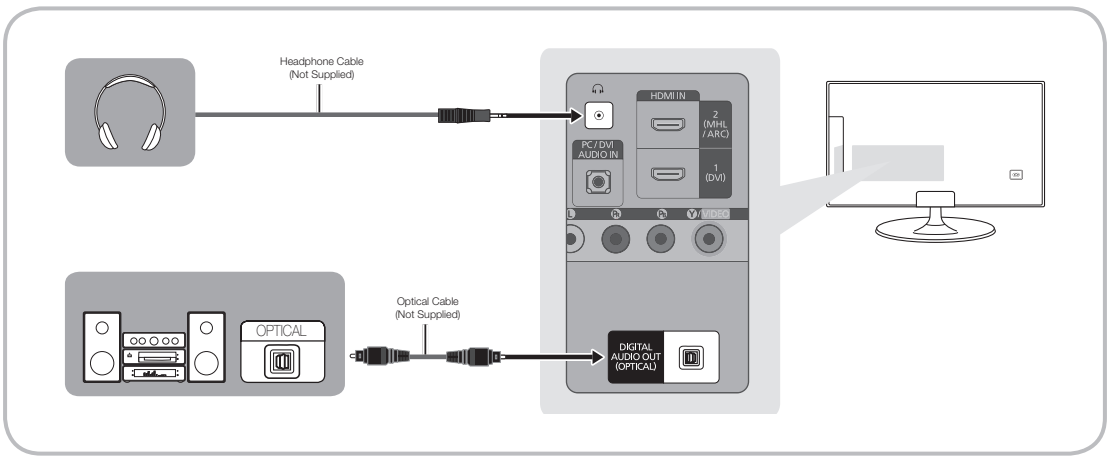
✎ When you connect a Video cable to **COMPONENT / AV IN**, the color of the **COMPONENT / AV IN [VIDEO]** jack (green) will not match the video cable (yellow).

Connections

Connecting to Audio Devices

Using an Optical (Digital) Cable and a Headphone Cable Connection

Use with Digital Audio Systems, Amplifiers, and Home Theaters.



✎ **Headphones** 🎧: You can connect your headphones to the headphone output jack on your product. While the headphones are connected, the sound from the built-in speakers will be disabled.

- The sound function may be restricted when you connect headphones to the product.
- Headphone volume and product volume are adjusted separately.
- The earphone jack supports only the 3 conductor tip-ring-sleeve (TRS) type.

✎ **DIGITAL AUDIO OUT (OPTICAL)**

- When you connect a Digital Audio System to the **DIGITAL AUDIO OUT (OPTICAL)** jack, decrease the volume of both the product and the system.
- 5.1 CH (channel) audio is available when you connect the product to an external device supporting 5.1 CH.
- When the receiver (home theater) is set to on, you can hear sound output from the product's optical jack. When the product is receiving a DTV signal, the product will send 5.1 CH sound to the home theater receiver. When the source is a digital component such as a DVD player / Blu-ray player / cable box / STB (Set-Top-Box) satellite receiver and you connected it to the product via HDMI, you will only hear 2 CH audio from the home theater receiver. If you want to hear 5.1 CH audio, connect the digital audio out jack from your DVD / Blu-ray player / cable box / STB satellite receiver directly to an amplifier or home theater.

Connections

The Service Cable Connection

SERVICE

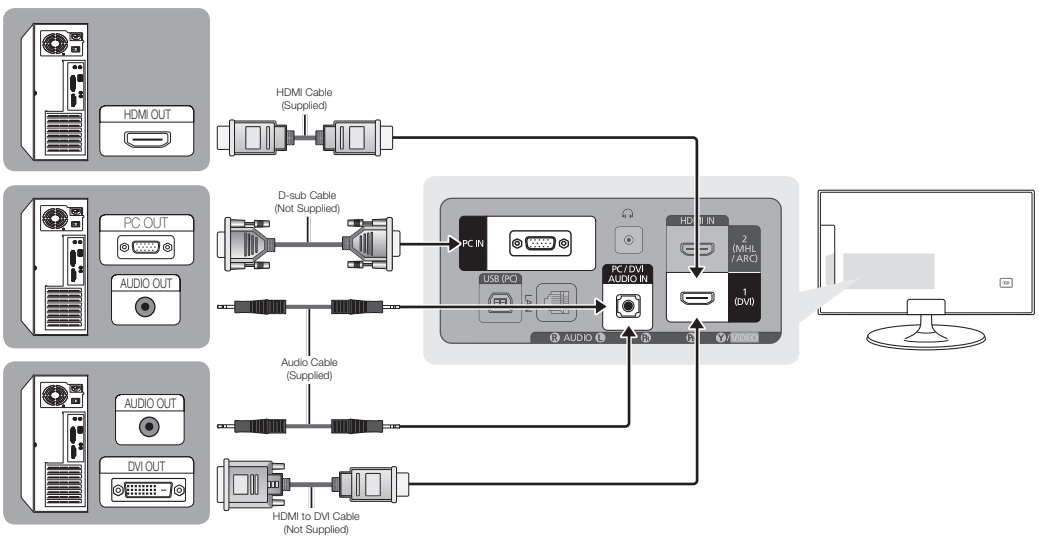
The **SERVICE** connection is for service only.

Connecting to a PC

Using an HDMI Cable or an HDMI to DVI Cable or a D-sub Cable Connection

✎ Your PC may not support an HDMI connection.

✎ Use your PC speakers for audio.



✎ **NOTE**

- For an HDMI to DVI cable connection, you must use the **HDMI IN 1 (DVI)** jack.
- For PCs with DVI video out jacks, use an HDMI to DVI cable to connect the DVI out on the PC to the **HDMI IN 1 (DVI)** jack on the product. Use the PC's speakers for audio.

Connections

Display Modes (HDMI/DVI Input)

The optimal PC display resolution for this product is 1920 x 1080 @ 60 Hz. We very strongly recommend you set the video output of your computer to the optimal resolution. You can also select one of the standard resolutions listed in the table below and the product will be automatically adjust to the resolution you choose. If you set your computer's video output to a resolution not listed in the table, the product screen may go blank and only the power indicator will turn on. To resolve this issue, adjust the resolution according to the following table, referring to the user guide for the graphics card.

Display Mode			Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H / V)
Mode	Resolution					
IBM	720 x 400	70Hz	31.469	70.087	28.322	-/+
VESA DMT	640 x 480	60Hz	31.469	59.940	25.175	-/-
MAC	640 x 480	67Hz	35.000	66.667	30.240	-/-
VESA DMT	640 x 480	72Hz	37.861	72.809	31.500	-/-
VESA DMT	640 x 480	75Hz	37.500	75.000	31.500	-/-
VESA DMT	800 x 600	60Hz	37.879	60.317	40.000	+/+
VESA DMT	800 x 600	72Hz	48.077	72.188	50.000	+/+
VESA DMT	800 x 600	75Hz	46.875	75.000	49.500	+/+
MAC	832 X 624	75Hz	49.726	74.551	57.284	-/-
VESA DMT	1024 x 768	60Hz	48.363	60.004	65.000	-/-
VESA DMT	1024 x 768	70Hz	56.476	70.069	75.000	-/-
VESA DMT	1024 x 768	75Hz	60.023	75.029	78.750	+/+
VESA DMT	1151 x 864	75Hz	67.500	75.000	108.000	+/+
MAC	1151 x 864	75Hz	68.681	75.062	100.000	-/+
VESA DMT	1280 x 720	60Hz	45.000	60.000	74.250	+/+
VESA DMT	1280 x 800	60Hz	49.702	59.810	83.500	-/+
VESA DMT	1280 x 1024	60Hz	63.981	60.020	108.000	+/+
VESA DMT	1280 x 1024	75Hz	79.976	75.025	135.000	+/+
VESA DMT	1366 x 768	60Hz	47.712	59.790	85.500	+/+
VESA DMT	1440 x 900	60Hz	55.935	59.887	106.500	-/+
VESA DMT	1600 x 900RB	60Hz	60.000	60.000	108.000	+/+
VESA DMT	1680 x 1050	60Hz	65.290	59.954	146.250	-/+
VESA DMT	1920 x 1080	60Hz	67.500	60.000	148.500	+/+

✎ For an HDMI to DVI cable connection, you must use the **HDMI IN 1 (DVI)** jack.

✎ The interlace mode is not supported.

✎ The set may operate abnormally if you select a non-standard video format.

✎ Separate and Composite modes are supported. SOG(Sync On Green) is not supported.

✎ If there is no power cut-off switch, the power consumption is "0" only when the power cord is disconnected.

✎ DPM(Display Power Management) Function does not work if you used in connection with the HDMI port of this product.

✎ If an HDMI to DVI cable is connected to the **HDMI IN 1 (DVI)** port, the audio does not work.

Changing the Input Source

Source

→ Source

When you are watching TV and you want to watch a movie on your DVD player or Blu-ray player or switch to your cable box or STB satellite receiver, you need to change the Source.

TV / PC / Intel® WiDi / HDMI1/DVI / HDMI2 / AV / Component

1. Press the button on your remote. The Smart Hub screen appears.
2. Select Source. The Source screen appears.
3. Select a desired external input source.

✎ Alternatively, you can access the Source screen by selecting the SOURCE button on your remote.

✎ You can only choose external devices that are connected to the product. In the displayed Source list, connected inputs are highlighted.

✎ In the Source, Intel® WiDi and PC are always stays activated.

✎ To use Intel® WiDi, you must first attach a “Samsung Wireless LAN Adapter” (WIS09ABGNX or WIS12ABGNX - sold seperately) to either the USB port on your product.

What is Intel® WiDi?

With WiDi display technology, you can pair the TV with your laptop computer wirelessly. This technology is based on the wireless LAN N series that is designed to transfer a high-quality signal of 720p or 1080p between wireless devices.

This is useful especially if you want to connect your desktop or laptop computer to a bigger screen such as a TV.

- To implement the WiDi feature, your laptop computer must meet the requirements below.

  (For compatibility with your laptop computer, contact the manufacturer of your laptop computer.)

  ✎ System Requirements

  - Processor: Intel Core i3 Series
  - Graphics: Intel HD graphics
  - Wireless adapter
    - Intel® Centrino® Wireless-N 1000, 1030
    - Intel® Centrino® Advanced-N 6200, or 6230 6205
    - Intel® Centrino® Wireless-N + WiMAX 6150
    - Intel® Centrino® Advanced-N + WiMAX 6250
    - Intel® Centrino® Ultimate-N 6300
  - Software: Intel® My WiFi Technology (Intel® MWT) 2, Intel®wireless display are required to install
  - Operating system: Windows 7 32 bit, 64 bit

Connections

WiDi Connection

1. From the Source screen, select Intel® WiDi.
2. On your desktop, launch Intel® WiDi ( ).

   ✎ As soon as the program starts, it searches for available adapters.
3. Select the correct adapter for the program and press "Connect".

   ✎ If the adapter of your choice is not found, press "Search for available adapters".

   ✎ If the search result has more than 2 match, check the product ID that you want to connect to.
4. Enter the security code into the WiDi program on your laptop computer. Note that the security code will only be displayed on the screen when first run.
5. A connection has been established with your laptop computer. Now you can use the WiDi feature to transfer data wirelessly.

Usage Conditions

- Frequency: 2.4G / 5G
- Effective Range: 0.5m ~ 3m (max. 10m) - required to minimize the electric interference
- Operation: Since the WiDi technology uses a compression codec system for communications purposes, you may encounter a delay in the transmission or a corrupt image on the screen. Therefore, it is advisable to use a wired port (HDMI or PC port, if any) to guarantee a stable, optimal performance.

Connections

How to Use Edit Name

Edit Name lets you associate a device name to an input source. To access Edit Name, open the Tools menu when the Source list is displayed. The following selections appear under Edit Name:

VCR / DVD / Cable STB / Satellite STB / PVR STB / AV Receiver / Game / Camcorder / PC / DVI PC / DVI Devices / TV / IPTV / Blu-ray / HD DVD / DMA: Select an input jack, and then select the name of the device connected to that jack from the list that appears. For example, if you have your Blu-ray player attached to **HDMI IN 2 (MHL / ARC)**, select Blu-ray for that input.

✎ If you connect a PC to the **HDMI IN 1 (DVI)** port with an HDMI cable, assign PC to HDMI1/DVI in Edit Name.

✎ If you connect a PC to the **HDMI IN 1 (DVI)** port with an HDMI to DVI cable, assign DVI PC to HDMI1/DVI in Edit Name.

✎ If you connect an AV device to the **HDMI IN 1 (DVI)** port with an HDMI to DVI cable, assign DVI Devices to HDMI1/DVI in Edit Name.

Information

You can see detailed information about the selected external device.

Refresh

If the external devices are not displayed in the Source list, open the Tools menu, and then select Refresh, and then search for the connected devices.

✎ Alternatively, you can refresh the Source list by selecting A using your remote.

Basic Features for the Monitor

Correct posture to use the product

Use the product in the correct posture as follows.

- Straighten your back.
- Allow a distance of 45 to 50cm between your eye and the screen, and look slightly downward at the screen. Keep your eyes directly in front of the screen.
- Adjust the angle so light does not reflect on the screen.
- Keep your forearms perpendicular to your upper arms and level with the back of your hands.
- Keep your elbows at about a right angle.
- Adjust the height of the product so you can keep your knees bent at 90 degrees or more, your heels attached to the floor, and your arms lower than your heart.

Changing the Preset Picture Mode

Picture Mode

Menu → Picture → Picture Mode

Picture modes apply preset adjustments to the picture.

- Standard

  Suitable for a normal environment.

- Entertain

  Sharpens the picture. Suitable for games.

Samsung MagicAngle

Menu → Picture → Samsung MagicAngle

MagicAngle lets you view optimal screen quality from almost any viewing position. By setting an appropriate value for each position, you can view a high quality picture, whether you are viewing the screen from an angle below, above, or on the side of the product.

- Samsung MagicAngle

  Select Lean Back Mode if viewing below the screen and Standing Mode if viewing above.

- Mode

  Determines the amount of adjustment. Numbers closer to 10 are best for lower viewing positions.

Backlight

Menu → Picture → Backlight

Adjusts the brightness of the screen by adjusting the brightness of the individual pixels.

Contrast

Menu → Picture → Contrast

Increases or decreases the contrast between dark and light areas of the picture.

Brightness

Menu → Picture → Brightness

Adjusts the brightness of the screen. Not as effective as Backlight.

Sharpness

Menu → Picture → Sharpness

Sharpens or dulls the edges of objects.

To adjust picture quality, follow these steps:

1. Select an option you want to adjust. When you select an option, a slider screen appears.
2. Adjust the option value using your remote.

✎ When you make change to option value, the OSD will be adjusted accordingly.

✎ You can adjust and store Settings for each external device connected to the product.

✎ Lowering picture brightness reduces power consumption.

Screen Adjustment

Menu → Picture → Screen Adjustment

Using this function, you can make change to various picture size and aspect ratio options.

- Picture Size

  If you have a cable box or satellite receiver, it may have its own set of screen sizes as well. However, we highly recommend you use your products 16:9 mode most of the time.

  16:9: Sets the picture to the 16:9 wide screen format.

  4:3: Sets the picture to basic (4:3) mode.

  ✎ Do not set your product to 4:3 format for a long time. The borders displayed on the left and right, or top and bottom of the screen may cause image retention (screen burn) which is not covered by the warranty.

Basic Features for the Monitor

Calibrating the Screen Display

Auto Adjustment

Menu → Picture → Auto Adjustment

Automatically adjusts the picture's frequency, position, and fine tune settings in the PC mode.

✎ Available only when you connect your PC to the product with a D-Sub cable.

PC Screen Adjustment

Menu → Picture → Screen Adjustment → PC Screen Adjustment

✎ Available in PC mode only.

- Coarse / Fine: Removes or reduces picture noise. If the noise is not removed by Fine-tuning alone, use the Coarse function to adjust the frequency as best as possible (Coarse) and Fine-tune again. After the noise has been reduced, re-adjust the picture so that it is aligned with the center of screen.
- Position: Adjust the PC's screen position using your remote if it is not centered or does not fit the product screen.
- Image Reset: Resets the image to the default settings.

Using Your Product as a Computer (PC) Display

Entering the Video Settings (Based on Windows 7)

For your product to work properly as a computer display, you must enter the correct video settings.

✎ Depending on your version of Windows and your video card, the procedure on your PC will probably differ slightly from the procedure presented here.

✎ However, the same basic information will apply in most cases. (If not, contact your computer manufacturer or Samsung Dealer.)

1. Click “Control Panel” on the Windows start menu.
2. Click “Appearance and Themes” in the “Control Panel” window. A display dialog box appears.
3. Click “Display”. Another display dialog box appears.
4. Click the “Settings” tab on the display dialog box.
   - On the Settings tab, set the correct resolution (screen size). The optimal resolution for this product is 1920 x 1080.
   - If a vertical-frequency option exists on your display settings dialog box, select “60” or “60 Hz”. Otherwise, just click “OK” and exit the dialog box.

Advanced Settings

Menu → Picture → Advanced Settings

Using this function, you can configure advanced picture settings to create your preferred picture.

- White Balance

  Adjusts the color temperature of the picture so that white objects look white (instead of, for example, slightly pink or slightly yellow) and the overall color of the picture looks natural.

  R-Offset / G-Offset / B-Offset: Adjusts each color's (red, green, blue) darkness.

  R-Gain / G-Gain / B-Gain: Adjusts each color's (red, green, blue) brightness.

  Reset: Resets the White Balance to it's default settings.

- Gamma

  Adjusts the primary color intensity.

  ✎ Available only when the Samsung MagicAngle is set to Off.

Picture Options

Menu → Picture → Picture Options

Using this function, you can configure additional picture settings to suit your preference.

- Color Tone

  Cool makes the picture bluer (cooler). Warm1 and Warm2 make the picture redder (warmer).

  ✎ You can adjust and store settings for each external device connected to an input on the product.

- HDMI Black Level

  Lets you adjust the screen depth by selecting a black level.

  ✎ Available only in HDMI mode.

Reset Picture

Menu → Picture → Reset Picture

Resets your current picture mode to its default settings.

Sound Mode

Menu → Sound → Sound Mode

Sound modes apply preset adjustments to the sound.

✎ If Speaker Select is set to External Speaker, the Sound Mode is disabled.

- Standard

  Selects the normal sound mode.

- Music

  Emphasizes music over voices.

- Movie

  Provides the best sound for movies.

- Clear Voice

  Emphasizes voices over other sounds.

- Amplify

  Increase the intensity of high-frequency sound to allow a better listening experience for the hearing impaired.

Sound Effect

Menu → Sound → Sound Effect

✎ If Speaker Select is set to External Speaker, the Sound Effect is disabled.

✎ Available only when the Sound Mode is set to Standard.

- SRS TruSurround HD

  This function provides a virtual 5.1 channel surround sound experience through a pair of speakers using HRTF (Head Related Transfer Function) technology.

- SRS TruDialog

  This function allows you to increase the intensity of a voice over background music or sound effects so that dialog can be heard more clearly.

- Equalizer

  The Equalizer displays a series of sliders. Use the arrow buttons to select a slider, and change the slider's value. To Reset the Equalizer, select the Reset. A pop-up appears asking if you want to reset, select Yes. To exit, select Close.

  Balance L/R: Adjusts the balance between the right and left speaker.

  100Hz / 300Hz / 1kHz / 3kHz / 10kHz (Bandwidth Adjustment): Adjusts the loudness of specific bandwidth frequencies.

  Reset: Resets the equalizer to its default settings.

SPDIF Output

Menu → Sound → SPDIF Output

SPDIF (Sony Philips Digital Interface) provides digital audio output to speakers and various digital devices such as A/V Receivers and Home Theaters which reduces interference and distortion.

- Audio Format

  You can select the Digital Audio output (SPDIF) format. The available Digital Audio output (SPDIF) format may differ depending on the input source.

- Audio Delay

  Lets you correct timing mismatches between the audio track and the video when you are watching the TV and listening to digital audio output from the product through an external device such as an AV receiver. When you select the Audio Delay, a slider screen appears. Adjust the option value using your remote (0ms ~ 250ms).

Speaker Settings

Menu → Sound → Speaker Settings

- Speaker Select

  If you are listening to the sound track of a broadcast or movie through an external receiver, you may hear a sound echo caused by the difference in decoding speed between the product's speakers and the speakers attached to your audio receiver. If this occurs, set the product to External Speaker.

  ✎ When the Speaker Select is set to External Speaker, the product's speakers are turned off. You will hear sound through the external speakers only. When the Speaker Select is set to TV Speaker, both the product's speakers and the external speakers are on. You will hear sound through both.

  ✎ When the Speaker Select is set to External Speaker, the volume buttons and mute function will not operate and the sound settings will be limited.

  ✎ If there is no video signal, both the product's speakers and the external speakers will be mute.

- Auto Volume

  Because each station has its own broadcasting conditions, the volume may fluctuate each time you change the channel. This feature automatically adjusts the volume of a channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

  ✎ To use the volume control of a connected source device, set Auto Volume to Off. A change to the volume control of the connected source device may not be applied if Auto Volume is set to Normal or Night.

Reset Sound

Menu → Sound → Reset Sound

Reset all sound settings to the factory defaults.

Channel

→ Channel

Using this function, you can add channels to or delete channels from the different Category channel lists on the Channel screen, set favorite channels, view and access recently viewed and mostly viewed channels, and edit the channel names of analog channels.

✎ The American Academy of Pediatrics discourages television viewing for children younger than two years of age.

- All

  Shows all channels.

- Added Ch.

  Shows all added channels. These are the channels that appear when you press the CH LIST button.

- Favorites 1 – Favorites 5

  Shows all favorite channels, in up to five groups. Each group has separate channels.

  ✎ The product displays Favorites only if you have added favorites using Edit Favorites.

  ✎ If the Highlight located in the Favorites 1 – Favorites 5 category, you can change the name of category by selecting B using your remote.

- Recently Viewed

  Shows the most recently viewed channels.

- Mostly Viewed

  Shows the most frequently viewed channels.

Using the colored and function buttons with the Channel

- When the highlight located in the category, you can use these options:
  - A Air / Cable

    Switches the mode and display between Air and Cable.

    ✎ Appears only if your TV stored both Air and Cable.
  - ↩ Return

    Return to the previous menu.
- When the highlight located in the channel list, you can use these options:
  - A Air / Cable

    Switches the mode and display between Air and Cable.

    ✎ Appears only if your TV stored both Air and Cable.
  - B Delete

    Delete the selected channel(s).
  - *i* Information

    Displays details of the selected channel.
  - ◇ Page

    Scrolls the channel list to the next or previous page.
  - Select / Deselect

    Select or deselect a channel.
  - Tools

    Displays the option menu.
  - ↩ Return

    Return to the previous menu.

Using the Tools menu with Channel

- Add / Delete

  Delete a channel from or add a channel to the Channel list.

  To delete a channel in Channel, follow these steps:

  1. If you want to delete a channel, select a category of the channel.
  2. Select a channel in the category. A ✓ mark appears to the left of the channel.

     ✎ You can select more than one channel.

     ✎ If you select the selected channel again, a ✓ mark disappears.
  3. Open the Tools menu using your remote.
  4. Select the Delete. The message Deleted the selected channel(s). appears, and then select OK.

  ✎ You can delete the selected channel immediately by selecting B using your remote.

  ✎ When you delete a channel in the Recently Viewed or Mostly Viewed category, the channel will disappear from the category list. But, the channel is not deleted.

To add a channel in Channel, follow these steps:

1. On the Channel screen, select the All category.
2. Select a grayed out channel in the All category. A ✓ mark appears to the left of the channel.

   ✎ You can select more than one channel.

   ✎ If you select the selected channel again, a ✓ mark disappears.

   ✎ A gray colored channel indicates the channel has been deleted.
3. Open the Tools menu using your remote.
4. Select the Add. The message Added the selected channel(s). appears, and then select OK.

✎ The Add menu option only appears for deleted channel.

✎ All deleted channels will be shown on the All category. You add channels back to the Added Ch. category on the All category.

- Edit Favorites

Sets channels you watch frequently as favorites, or removes a channel from list of favorites using the Tools menu.

To set channels as favorites, follow these steps:

1. Select the All or Added Ch. category.
2. Select a channel in the category. A ✓ mark appears to the left of the channel.

   ✎ You can select more than one channel.

   ✎ If you select the selected channel again, a ✓ mark disappears.
3. Open the Tools menu using your remote.
4. Select the Edit Favorites. The Edit Favorites screen appears.
5. Select A using your remote. The selected channel will be moved to the favorite group.

   ✎ Also, you can select a channel in the Edit Favorites screen.

   ✎ You can add a favorite channel to any one of the groups. To change favorites group, select D using your remote. Each time you select D, a favorites group will be changed.
6. When done, select OK. The channel is made as a favorite and is assigned to the favorite group you selected.

   ✎ The product displays the "⭐" symbol next to the channel, indicating it is a favorite.

Using the colored and function buttons with the Edit Favorites

- When the highlight located in the Added Ch., you can use these options:
  - A Add

    Add selected channels to the favorites group.
  - D Change Fav.

    Change the favorites group. Each time you select D using your remote, a favorites group will be changed.
  - 0~9 Go To

    Move to the Highlight to a channel number immediately by pressing the number button using your remote.
  - ↩ Return

    Return to the previous menu.
- When the highlight located in the favorites group, you can use these options:
  - A Delete

    Delete the selected channel.
  - B Change order

    Change the favorites group list order.
  - C Copy

    Copy a selected channel to other favorites groups.
  - D Change Fav.

    Change the favorites group. Each time you select D using your remote, a favorites group will be changed.
  - 0~9 Go To

    Move to the Highlight to a channel number immediately by pressing the number button using your remote.
  - ↩ Return

    Return to the previous menu.

To remove a channel from the list of favorites, follow these steps:

1. Select the favorites group category.
2. Select a channel in the selected favorites group. A ✓ mark appears to the left of the channel.

   ✎ You can select more than one channel.

   ✎ If you select the selected channel again, a ✓ mark disappears.
3. Open the Tools menu using your remote.
4. Select Delete. The message Do you want to delete the selected item(s)? appears.
5. Select OK. The message Deleted the selected item(s). appears.

✎ You can delete the selected channel from the list of favorites group immediately by selecting B using your remote.

- Rename Channel

  (Appears only if you have selected an analog channel.)

  Lets you assign a name of up to five characters to an analog channel. For example, Food, Golf, etc. This makes it easier to find and select a channel.
- Select All / Deselect All

  Select all channels in the list. / Deselect all channels you selected.

Display Icons Used in the Channel screens

A: An analog channel.

: A favorite channel.

: A locked channel.

Schedule Manager

→ Schedule Manager

Using this function, you can set the product to display a desired channel automatically on a day and at a time of your choice.

✎ You must set the current time first using the Time → Clock function in System menu to use this function.

To use the Schedule Viewing, follow these steps:

1. On the Schedule Manager screen, select A using your remote.
2. Set Antenna, Channel, Repeat, and Start Time.
   - Antenna

     You can view an antenna source. If your product has digital broadcasts, you can change a source from analog to digital.

     If you want to change an antenna source between Air and Cable, select an antenna source you want in Antenna menu (Channel → Antenna).
   - Channel

     Select the desired channel.

     ✎ You can only select memorized channels.
   - Repeat

     Select Once, Manual, Sat~Sun, Mon~Fri or Everyday. If you select Manual, you can set the day you want.

     ✎ The ✓ mark indicates a day you've selected.

     Date: You can set a desired date.

     ✎ The Date is available only when you select Once in Repeat.
   - Start Time

     You can set the start time you want.
3. When done, select OK. The selected channel is scheduled for viewing.

   ✎ On the Schedule Manager screen, you can check a list of Schedule Viewing.

To delete an item in a list of scheduled viewing, follow these step:

1. On the Schedule Manager screen, Highlight an item you want to delete.
2. Open the Tools menu using your remote.
3. Select Cancel Schedule. The Cancel selected list(s)? message appears.
4. Select Yes. The selected schedule will be canceled.

✎ If you press the INFO*i* button after Highlight an item, the Information screen appears. On the Information screen, you can change or cancel the Schedule Viewing.

Cancel Schedule: Cancel the Schedule Viewing.

Edit Schedule: Change the Schedule Viewing.

Return: Return to the previous screen.

Channel List

→ Channel List

Using this function, you can view channel list, program information, favorite channel, and manage schedules of timer viewing.

1. Press the CH LIST button. The Channel List screen is displayed immediately.
2. Change a channel or channel list mode.

- Added Ch.

  Shows all added channels.

- Favorites 1 – Favorites 5

  Shows all favorite channels, in up to five groups. Each group has a separate screen.

  ✎ The product displays favorite groups only if you have added favorites using Edit Favorites.

Using the colored and function buttons with the Channel List

✎ If you press the INFO*i* button, the product displays details of the selected program.

- A Antenna

  Switches the mode and display between Air and Cable.

  ✎ Appears only if your TV stored both Air and Cable.

- C Program View / Channel View

  For digital channels, switches the display between Program View and Channel View.

  When you select a digital channel in Channel List, select once to display a list of programs on that channel. select again to re-display the Channel View.

- ◀▶ CH Mode / Channel

  On Channel View screen, Toggles between the Favorites list (if you have added favorites using Edit Favorites) and the Added Ch. channel list. / On Program View screen, change a channel.

- Watch / Information

  Displays the channel you selected. / Displays details of the selected channel.

- ▲▼ Page

  Scrolls the Channel List to the next or previous page.

Basic Features for the TV

Display Icons Used in the Channel List screens

A: An analog channel.

: A reserved program.

: A locked channel.

Using the Schedule Viewing in Channel List (digital channels only)

You can use the Schedule Viewing in Channel List to schedule a digital channel program for viewing. The product will turn on and display the digital channel program when the program begins.

1. Press the CH LIST button. The Channel List screen appears.
2. Select a desired digital channel.
3. Select C using your remote. The product displays program list of the selected channel.
4. Select a desired program in the program list, and then select Information using your remote.
5. On the Information screen, select the Schedule Viewing. The selected program is set to Schedule Viewing.

   ✎ If you want to cancel the Schedule Viewing, follow Steps 1 through 4, and then select the Cancel Schedule.

Antenna

Menu → Channel → Antenna

Before your product can memorize the available channels, you must select your TV's signal source, Air (using an antenna) or Cable. Select Air or Cable. After you have selected the signal source, go on to the Auto Program function.

✎ Selecting the signal source using the Antenna function also determines the signal source the product is tuned to. For example, if you receive your TV signal over the air, and you select Cable, you will see only snow. You must select Air to see a picture.

Auto Program

Menu → Channel → Auto Program

The Auto Program function memorizes all channels that are available over the air or through your cable system and adds them to the Channel list.

To start the Auto Program, follow these steps:

1. Go to the Auto Program menu.
2. Select Air or Cable or both, and then select Next. A ✓ mark appears in the check box.

   ✎ If you selected Air or Cable in the Antenna menu, your choice will already be selected.
3. If you selected the Cable, the cable system screen appears. Select the Digital Cable System.

   ✎ If you selected the Air only, the Auto Program starts.
4. Select the correct cable signal format - STD, HRC or IRC.

   ✎ Most cable systems use STD (Standard).
5. Repeat for Analog Cable System.
6. Select Next. The Auto Program starts.

   ✎ After all the available channels are stored, the Auto Program removes scrambled channels. When done, the Auto Program menu then reappears. This process can take up to 30 minutes.

Clear Scrambled Channel

Menu → Channel → Clear Scrambled Channel

This function filters out scrambled channels after the Auto Program is completed. This process may take up to 30 minutes.

✎ This function is only available in Cable mode.

How to Stop the Clear Scrambled Channel function

1. To stop the Clear Scrambled Channel function, select Stop.
2. The message Stop searching for scrambled channels? appears. Select the Yes.
3. The Clear Scrambled Channel function will be stopped.

Fine Tune

Menu → Channel → Fine Tune

(analog channels only)

If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, fine tune the channel manually. Scroll to the left or right until the image is clear.

✎ Select the channel, and then select Fine Tune.

✎ Fine tuned channels that have been saved are marked with an asterisk "*" on the right-hand side of the channel number in the channel banner.

✎ To reset fine-tuning, select the channel, select Fine Tune, and then select Reset on the Fine Tune screen.

Picture Mode

Menu → Picture → Picture Mode

Picture modes apply preset adjustments to the picture.

- Dynamic

  Brightens the screen. Suitable for a bright room.

- Standard

  Suitable for a normal environment.

- Natural

  Suitable for reducing eye strain.

- Movie

  Darkens the screen, making it less glary. Suitable for watching movies in a darkened room.

Samsung MagicAngle

Menu → Picture → Samsung MagicAngle

MagicAngle lets you view optimal screen quality from almost any viewing position. By setting an appropriate value for each position, you can view a high quality picture, whether you are viewing the screen from an angle below, above, or on the side of the product.

- Samsung MagicAngle

  Select Lean Back Mode if viewing below the screen and Standing Mode if viewing above.

- Mode

  Determines the amount of adjustment. Numbers closer to 10 are best for lower viewing positions.

Backlight

Menu → Picture → Backlight

Adjusts the brightness of the screen by adjusting the brightness of the individual pixels.

Contrast

Menu → Picture → Contrast

Increases or decreases the contrast between dark and light areas of the picture.

Brightness

Menu → Picture → Brightness

Adjusts the brightness of the screen. Not as effective as Backlight.

Sharpness

Menu → Picture → Sharpness

Sharpens or dulls the edges of objects.

Color

Menu → Picture → Color

Adjusts the color saturation. The higher the Color setting, the more intense the color. Low settings remove color and the picture becomes black, white and gray.

Tint (G/R)

Menu → Picture → Tint (G/R)

Adjusts the amount of green and red in the picture. As you increase the amount of green, the amount of red decreases and vice versa.

To adjust picture quality, follow these steps:

1. Select an option you want to adjust. When you select an option, a slider screen appears.
2. Adjust the option value using your remote.

✎ When you make change to option value, the OSD will be adjusted accordingly.

✎ You can adjust and store Settings for each external device connected to the product.

✎ Lowering picture brightness reduces power consumption.

Screen Adjustment

Menu → Picture → Screen Adjustment

Using this function, you can make change to various picture size and aspect ratio options.

- Picture Size

  If you have a cable box or satellite receiver, it may have its own set of screen sizes as well. However, we highly recommend you use your products 16:9 mode most of the time.

  16:9: Sets the picture to the 16:9 wide screen format.

  Zoom1: Provides moderate magnification of the picture. Sides, top, and bottom are cut off.

  Zoom2: Provides larger magnification of the picture. Sides, top, and bottom are cut off.

  Wide Fit: Enlarges the aspect ratio of the picture so it fits the entire screen.

  ✎ Available with HD 1080i / 720p signals in 16:9 mode.

  4:3: Sets the picture to basic (4:3) mode.

  ✎ Do not set your product to 4:3 format for a long time. The borders displayed on the left and right, or top and bottom of the screen may cause image retention (screen burn) which is not covered by the warranty.

  Screen Fit: When your product inputs HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) signals, displays the full image without any cut-off.

- Position

  Adjusts the picture position. Position is only available if Picture Size is set to Zoom1, Zoom2, Wide Fit or Screen Fit.

  ✎ In DTV mode, Position is not available when Picture Size is set to Screen Fit.

  To use the Position function after selecting Zoom1, Zoom2, Wide Fit or Screen Fit, follow these steps:

  1. Select the Position.
  2. On the Position screen, select Position, and then move the picture to position you want using your remote.
  3. When done, select Position again, and then select Close.

     ✎ To reset the picture position, select Reset.

Basic Features for the TV

Picture Sizes available by Input Source:

- ATV, AV: 16:9, Zoom1, Zoom2, 4:3
- Component (480i, 480p): 16:9, Zoom1, Zoom2, 4:3
- DTV (720p): 16:9, Wide Fit, 4:3
- DTV (1080i, 1080p): 16:9, Wide Fit, 4:3, Screen Fit
- Component (720p): 16:9, Wide Fit, 4:3
- Component (1080i, 1080p): 16:9, Wide Fit, 4:3, Screen Fit
- HDMI (720p, 1080i, 1080p): 16:9, Wide Fit, 4:3, Screen Fit
- PC: 16:9, 4:3

✎ Depending on the input source, the picture size options may vary.

✎ The available items may differ depending on the selected mode.

✎ HD (High Definition): 16:9 - 1080i/1080p (1920x1080), 720p (1280x720)

✎ You can adjust and store settings for each external device you have connected to an input on the product.

Advanced Settings

Menu → Picture → Advanced Settings

Using this function, you can configure advanced picture settings to create your preferred picture.

✎ Advanced Settings is available only when the Picture Mode is set to Standard or Movie mode.

- Dynamic Contrast

  Adjusts the screen contrast.

- Black Tone

  Darker settings make blacks look darker.

- Flesh Tone

  Adjusts the amount of red in skin tones.

- RGB Only Mode

  Displays the Red, Green and Blue colors so you can make fine adjustments to hue and saturation.

- Color Space

  Adjusts the range and variety of colors (the color space) available to create images.

- White Balance

  Adjusts the color temperature of the picture so that white objects look white (instead of, for example, slightly pink or slightly yellow) and the overall color of the picture looks natural.

  R-Offset / G-Offset / B-Offset: Adjusts each color's (red, green, blue) darkness.

  R-Gain / G-Gain / B-Gain: Adjusts each color's (red, green, blue) brightness.

  Reset: Resets the White Balance to it's default settings.

- 10p White Balance

  Controls the white balance in 10 point intervals by adjusting the red, green, and blue brightness.

  ✎ Available when the Picture Mode is set to Movie and when the Samsung MagicAngle is set to Off.

  ✎ Some external devices may not support this function.

- Gamma

  Adjusts the primary color intensity.

  ✎ Available only when the Samsung MagicAngle is set to Off.

- Expert Pattern

  Use the Expert Pattern function to calibrate the picture. If the OSD menu disappears or a menu other than the Picture menu is opened, the TV saves the calibration and the Expert Pattern screen disappears.

  Off: Turns the Expert Pattern function off.

  Pattern1: This test screen demonstrates the effect of the display settings on shades of grey and black.

  Pattern2: This test screen demonstrates the effect of the display settings on colors.

  ✎ After selecting Pattern1 or Pattern2, you can adjust any of the advanced settings for desired effect.

  ✎ While the Expert Pattern is running, the TV does not output sound.

  ✎ Available only when the Picture Mode is set to Movie or Standard in DTV(over 720p), Component, and HDMI modes.

- Motion Lighting

  When on, the product automatically adjusts the brightness of the screen in response to the brightness of the room. In bright light, the screen brightens. In dim light, the screen dims.

  ✎ Only available in Standard mode.

  ✎ When you change the Backlight, Contrast or Brightness, the product sets the Motion Lighting to Off.

Picture Options

Menu → Picture → Picture Options

Using this function, you can configure additional picture settings to suit your preference.

✎ When your product is connected to a PC, you can only make changes to Color Tone.

- Color Tone

  Cool makes the picture bluer (cooler). Warm1 and Warm2 make the picture redder (warmer).

  ✎ Warm1 and Warm2 are deactivated when the Picture Mode is set to Dynamic.

  ✎ You can adjust and store settings for each external device connected to an input on the product.

- Digital Noise Filter

  If the broadcast signal received by your product is weak, you can activate the Digital Noise Filter feature to reduce any static and ghosting that may appear on the screen.

  Auto Visualization: When changing analog channels, displays signal strength.

  ✎ When the signal is weak, try all the options until the product displays the best picture.

  ✎ Only available for analog channels.

  ✎ When the bar is green, you are receiving the best possible signal.

- MPEG Noise Filter

  Reduces MPEG noise to provide improved picture quality.

- HDMI Black Level

  Lets you adjust the screen depth by selecting a black level.

  ✎ Available only in HDMI mode.

- Film Mode

  Sets the product so that it senses and then processes film signals from all sources automatically and adjusts the picture for optimum quality.

  ✎ Available in TV, AV, Component (480i / 1080i) and HDMI (1080i).

Reset Picture

Menu → Picture → Reset Picture

Resets your current picture mode to its default settings.

Sound Mode

Menu → Sound → Sound Mode

Sound modes apply preset adjustments to the sound.

✎ If Speaker Select is set to External Speaker, the Sound Mode is disabled.

- Standard

  Selects the normal sound mode.

- Music

  Emphasizes music over voices.

- Movie

  Provides the best sound for movies.

- Clear Voice

  Emphasizes voices over other sounds.

- Amplify

  Increase the intensity of high-frequency sound to allow a better listening experience for the hearing impaired.

Sound Effect

Menu → Sound → Sound Effect

✎ If Speaker Select is set to External Speaker, the Sound Effect is disabled.

✎ Available only when the Sound Mode is set to Standard.

- SRS TruSurround HD

  This function provides a virtual 5.1 channel surround sound experience through a pair of speakers using HRTF (Head Related Transfer Function) technology.

- SRS TruDialog

  This function allows you to increase the intensity of a voice over background music or sound effects so that dialog can be heard more clearly.

- Equalizer

  The Equalizer displays a series of sliders. Use the arrow buttons to select a slider, and change the slider's value. To Reset the Equalizer, select the Reset. A pop-up appears asking if you want to reset, select Yes. To exit, select Close.

  Balance L/R: Adjusts the balance between the right and left speaker.

  100Hz / 300Hz / 1kHz / 3kHz / 10kHz (Bandwidth Adjustment): Adjusts the loudness of specific bandwidth frequencies.

  Reset: Resets the equalizer to its default settings.

Broadcast Audio Options

Menu → Sound → Broadcast Audio Options

- Preferred Language

  (digital channels only)

  Digital-TV broadcasts can simultaneously transmit many audio tracks (for example, simultaneous translations of the program into foreign languages). You can only select a language from among the ones being broadcasted.

- Multi-Track Sound

  The broadcasts can transmit one or more audio tracks. You can select a sound you want to listen from among the ones being broadcasted.

  ✎ While watching TV, open the Tools menu using your remote, you can select the Multi-Track Sound in Tools menu immediately.

  ✎ Multi-Track Sound may differ depending on the program being broadcast or broadcast signal.

SPDIF Output

Menu → Sound → SPDIF Output

SPDIF (Sony Philips Digital Interface) provides digital audio output to speakers and various digital devices such as A/V Receivers and Home Theaters which reduces interference and distortion.

- Audio Format

  You can select the Digital Audio output (SPDIF) format. The available Digital Audio output (SPDIF) format may differ depending on the input source.

- Audio Delay

  Lets you correct timing mismatches between the audio track and the video when you are watching the TV and listening to digital audio output from the product through an external device such as an AV receiver. When you select the Audio Delay, a slider screen appears. Adjust the option value using your remote (0ms ~ 250ms).

Speaker Settings

Menu → Sound → Speaker Settings

- Speaker Select

  If you are listening to the sound track of a broadcast or movie through an external receiver, you may hear a sound echo caused by the difference in decoding speed between the product's speakers and the speakers attached to your audio receiver. If this occurs, set the product to External Speaker.

  ✎ When the Speaker Select is set to External Speaker, the product's speakers are turned off. You will hear sound through the external speakers only. When the Speaker Select is set to TV Speaker, both the product's speakers and the external speakers are on. You will hear sound through both.

  ✎ When the Speaker Select is set to External Speaker, the volume buttons and mute function will not operate and the sound settings will be limited.

  ✎ If there is no video signal, both the product's speakers and the external speakers will be mute.

- Auto Volume

  Because each station has its own broadcasting conditions, the volume may fluctuate each time you change the channel. This feature automatically adjusts the volume of a channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

  ✎ To use the volume control of a connected source device, set Auto Volume to Off. A change to the volume control of the connected source device may not be applied if Auto Volume is set to Normal or Night.

Reset Sound

Menu → Sound → Reset Sound

Reset all sound settings to the factory defaults.

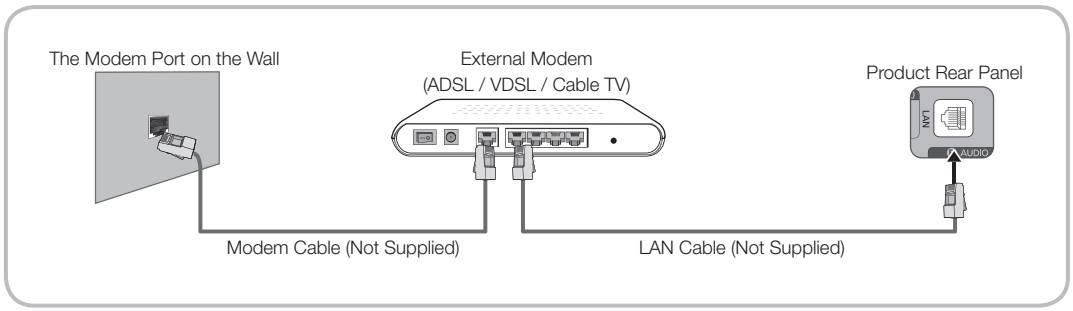
Network Features

Connecting to the Network

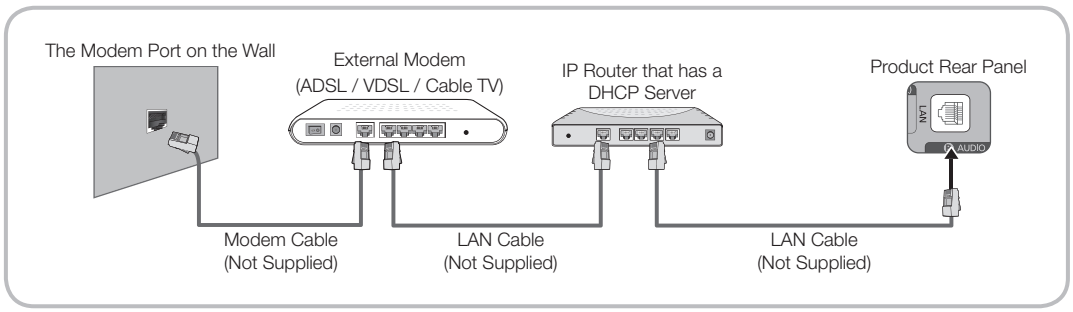
Wired Network Connection

There are three main ways to connect your product to your network using cable, depending on your network setup. They are illustrated below:

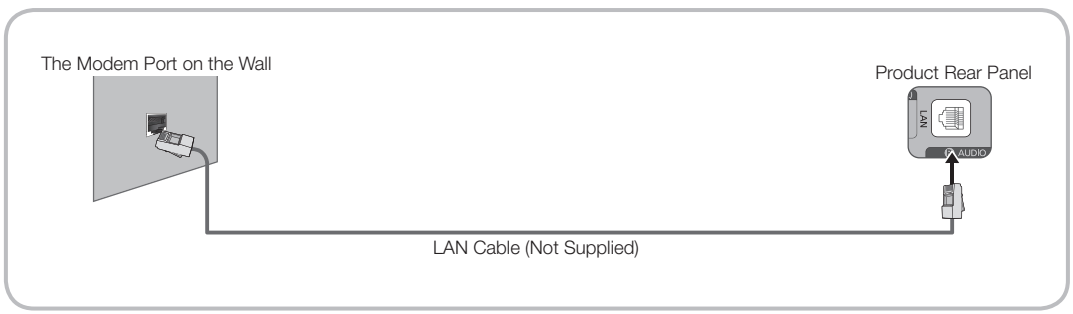
– You can attach your product to your LAN by connecting the LAN port on the back of your product to an external modem using a LAN cable.



– You can attach your product to your LAN by connecting the LAN port on the back of your product to an IP Sharer which is connected to an external modem. Use LAN cable for the connection.



– Depending on how your network is configured, you may be able to attach your product to your LAN by connecting the LAN port on the back of your product directly to a network wall outlet using a LAN cable.Note that the wall outlet is attached to a modem or router elsewhere in your house.



✎ Use Cat 5 or 6 (*STP Type) cable for the connection. (*Shielded Twist Pair)

✎ It is not supported when the network speed is below or equal to 10Mbps.

Network Features

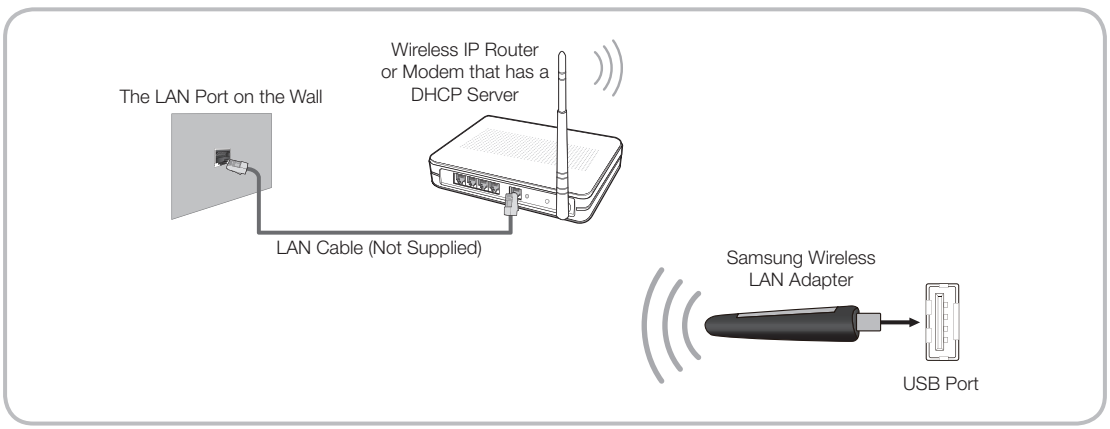
✎ If your network requires a Dynamic IP address, you should use an ADSL modem or router that supports the Dynamic Host Configuration Protocol (DHCP). Modems and routers that support DHCP automatically provide the IP address, subnet mask, gateway, and DNS values your product needs to access the Internet so you do not have to enter them manually. Most home networks use a Dynamic IP address.

✎ Some networks require a Static IP address. If your network requires a Static IP address, you must enter the IP address, subnet mask, gateway, and DNS values manually when you set up the network connection. To get the IP address, subnet mask, gateway, and DNS values, contact your Internet Service Provider (ISP). If you have a Windows computer, you can also get these values through your computer.

✎ You can use ADSL modems that support DHCP if your network requires a Static IP address. ADSL modems that support DHCP also let you use Static IP addresses.

Wireless Network Connection

You can connect your product to your LAN through a standard wireless router or modem. To connect wirelessly, you must first attach a “Samsung Wireless LAN Adapter” (WIS09ABGNX or WIS12ABGNX - sold seperately) to either the USB port on your product. See the illustration below.



Samsung’s Wireless LAN adapter is sold separately and is offered by select retailers, Ecommerce sites and Samsungparts.com. Samsung’s Wireless LAN adapter supports the IEEE 802.11a/b/g and n communication protocols. Samsung recommends using IEEE 802.11n. When you play video over a network connection, the video may not play smoothly.

Most wireless network systems incorporate a security system that requires devices that access the network through an access point or AP (typically a wireless IP Sharer - router or modem) to transmit an encrypted security code called an access key.

Network Features

Your product supports only the following wireless network security protocols:

- Authentication Mode : WEP, WPAPSK, WPA2PSK
- Encryption Type : WEP, TKIP, AES

✎ To use a wireless network, your product must be connected to a wireless IP sharer (either a router or a modem). If the wireless IP sharer supports DHCP, your product can use a DHCP or static IP address to connect to the wireless network.

✎ Select a channel for the wireless IP sharer that is not currently being used. If the channel set for the wireless IP sharer is currently being used by another device nearby, this will result in interference and communication failure.

✎ If you select the Pure High-throughput (Greenfield) 802.11n mode and the Encryption type is set to WEP or TKIP on your AP or wireless router, Samsung products will not support a connection in compliance with new Wi-Fi certification specifications.

✎ If your wireless router supports WPS (Wi-Fi Protected Setup), you can connect to the network via PBC (Push Button Configuration) or PIN (Personal Identification Number). WPS will automatically configure the SSID and WPA key in either mode.

✎ If your router, modem, or device is not certified, it may not connect to the product.

✎ Connection Methods: You can set up the wireless network connection in three ways:

- Auto Setup (Using the Auto Network Search function)
- Manual Setup
- WPS(PBC)

Network Settings

Menu → Network → Network Settings

Set the wired or wireless network connection to use various Internet services such as Smart Hub, AllShare Play and perform software upgrades.

Automatic Wired Network Setup

You can configure your product's wired network connection automatically when connecting your product to a network that supports DHCP.

✎ When connecting LAN cable, the screen pop-up appears directly to set wired network.

To set up your product's wired network connection automatically, follow these steps:

1. Go to the Network Settings screen. (Network → Network Settings)
2. Select Start. The network test screen appears and verifies the network connection.
3. When the connection has been verified, the You are connected to the Internet. If you have any problems using online services, please contact your Internet Service Provider. message appears.

✎ If the connection process fails, check the LAN port connection.

✎ If the automatic process cannot find the network connection values or if you want to set the connection manually, go to the next section, "Manual Network Setup."

Network Features

Manual Wired Network Setup

You can configure your product's wired network connection manually when connecting your product to a network that requires a Static IP address.

Getting the Network Connection Values

To view the Network connection values on most Windows computers, follow these steps:

1. Right click the Network icon on the bottom right of the screen.
2. In the pop-up menu that appears, click Status.
3. On the dialog that appears, click the Support tab.
4. On the Support Tab, click the Details button. The Network connection values are displayed.

To set up your product's wired network connection manually, follow these steps:

1. Go to the Network Settings screen. (Network → Network Settings)
2. Select Start. The network connection screen appears and the verification process starts.
3. Select Stop. The verification process stops. Select IP Settings on network connection screen. The IP Settings screen appears.
4. Select the IP Mode, and then set the IP Mode to Manual.
5. Go to the IP Address entry field, and then select the IP Address using remote.
6. Enter the first portion of the IP Address (for example, 105) into the first entry field using your remote. When done, go to the next field.
7. Enter the next portion of the IP Address. When done, go to the next field.
8. Repeat the entry process for each field in the IP Address.

   ✎ If you make a mistake when entering a number, re-enter the number to correct it.
9. When done, go to the Subnet Mask fields.
10. Repeat the same entry process for Subnet Mask, Gateway, and DNS Server.
11. When done, select OK. The network test screen appears and the verification process starts. When the connection has been verified, the You are connected to the Internet. If you have any problems using online services, please contact your Internet Service Provider. message appears.

Network Features

Network Status

Menu → Network → Network Status

You can check the current network and Internet status.

When the wired network connection failed...

- **No network cable found.**

  Check that your network cable is plugged in. If it is connected, make sure that the router is turned on; if it is on, try turning if off and on again.

- **IP auto setting failed.**

  Try the following to set your IP address automatically. Or set your IP address manually by selecting IP Settings. - Ensure DHCP server is enabled on router and unplug and re-plug-in the router. - Contact your Internet Service Provider for more information.

- **Unable to connect to the network.**

  Try the following: check if your IP address is set correctly in IP Settings. Contact your Internet Service Provider for more information.

- **Connected to your local network, but cannot connect to the Internet.**

  Check the DNS settings in IP Settings, or contact your Internet Service Provider to access the Internet.

- **Network setup complete, but cannot connect to the Internet.**

  Contact your Internet Service Provider to access the Internet.

Network Settings

Menu → Network → Network Settings

Set the wired or wireless network connection to use various Internet services such as Smart Hub, AllShare Play and perform software upgrades.

Automatic Wireless Network Setup

Most wireless networks have an optional security system that requires devices that access the network to transmit an encrypted security code called an Access or Security Key. The Security Key is based on a Pass Phrase, typically a word or a series of letters and numbers of a specified length you were asked to enter when you set up wireless security for your wireless network.

If you use this method of setting up the network connection, and have a Security Key for your wireless network, you will have to enter the Pass Phrase during the automatic or manual setup process.

To set up your product's wireless network connection automatically, follow these steps:

1. Go to the Network Settings screen. (Network → Network Settings)
2. Select Start. The network function searches for available wireless networks. When done, it displays a list of the available networks.
3. In the list of networks, select a network you want to connect, and then select Next.

   ✎ If the wireless router is set to Hidden (Invisible), you have to select Add Network and enter the correct Network Name (SSID) and Security Key to establish the connection.
4. If the Enter security key screen appears, go to step 5. If you select a wireless router that does not have wireless security, go to step 7.
5. To set wireless security for the router, enter the Security Key (Security key or PIN).

   ✎ You can enter the Security Key (Security key or PIN) using a keyboard screen. Enter the Security Key using your remote.

   ✎ You should be able to find the Pass Phrase on one of the set up screens you used to set up your router or modem.
6. When done, select Next. The network connection screen appears and the verification process starts.
7. When the connection has been verified, the You are connected to the Internet. If you have any problems using online services, please contact your Internet Service Provider. message appears.

✎ If the network does not accept the Security Key (Security key or PIN), select Retry or select IP Settings to enter the settings manually.

✎ If you want to set up the connection manually, select IP Settings. Then, go to the next section, "Manual Network Setup".

Network Features

Manual Wireless Network Setup

You can configure your product's wireless network connection manually when connecting your product to a network that requires a Static IP address or if the automatic connection process has failed.

Getting the Network Connection Values

To view the Network connection values on most Windows computers, follow these steps:

1. Right click the Network icon on the bottom right of the screen.
2. In the pop-up menu that appears, click Status.
3. On the dialog that appears, click the Support tab.
4. On the Support Tab, click the Details button. The Network connection values are displayed.

To set up your product's wireless network connection manually, follow these steps:

1. Go to the Network Settings screen. (Network → Network Settings)
2. Select Start. The network function searches for available wireless networks. When done, it displays a list of the available networks.
3. In the list of networks, select a network you want to connect, and then select Next.

   ✎ If the wireless router is set to Hidden (Invisible), you have to select Add Network and enter the correct Network Name (SSID) and Security Key to establish the connection.
4. If the Enter security key screen appears, go to step 5. If you select a wireless router that does not have wireless security, go to step 7.
5. To set wireless security for the router, enter the Security Key (Security key or PIN).

   ✎ You can enter the Security Key (Security key or PIN) using a keyboard screen. Enter the Security Key using your remote.

   ✎ You should be able to find the Pass Phrase on one of the set up screens you used to set up your router or modem.
6. When done, select Next. The network connection screen appears and the verification process starts.
7. Select Stop. The verification process stops. Select IP Settings on the network connection screen. The IP Settings screen appears.
8. Select IP Mode, and then set the IP Mode to Manual.
9. Go to the IP Address entry field, and then select the IP Address using remote.
10. Enter the first portion of the IP Address (for example, 105) into the first entry field using your remote. When done, go to the next field.
11. Enter the next portion of the IP Address. When done, go to the next field.
12. Repeat the entry process for each field in the IP Address.

    ✎ If you make a mistake when entering a number, re-enter the number to correct it.
13. When done, go to the Subnet Mask fields.
14. Repeat the same entry process for Subnet Mask, Gateway, and DNS Server.
15. When done, select OK. The network connection screen appears and the verification process starts. When the connection has been verified, the You are connected to the Internet. If you have any problems using online services, please contact your Internet Service Provider. message appears.

Network Features

WPS(PBC) Network Setup

If your router has a WPS(PBC) button, you can configure your product's wireless network connection using the WPS(PBC) button more easily.

To set up your product's wireless network connection using WPS(PBC), follow these steps:

1. Go to Network Settings screen. (Network → Network Settings)
2. Select Start. The network function searches for available wireless networks. When done, it displays a list of the available networks.
3. Select the WPS(PBC).
4. Press the WPS(PBC) button on your router within 2 minutes. Your product automatically acquires all the network setting values it needs and connects to your network.
5. The network connection screen appears, and network setup is done.

Network Features

Network Status

Menu → Network → Network Status

You can check the current network and Internet status.

When the wireless network connection failed...

- **Wireless network connection failed.**

  No wireless router selected. Go to Network Settings to select your router.

- **Unable to connect to wireless router.**

  Try the following: check that the router is turned on, and if it is try turning it off and on again. Check if you need to enter a security key to use the router.

- **IP auto setting failed.**

  Try the following to set your IP address automatically. Or set your IP address manually by selecting IP Settings. - Ensure DHCP server is enabled on router and unplug and re-plug-in the router. - Contact your Internet Service Provider for more information.

- **Unable to connect to the network.**

  Try the following: check if your IP address is set correctly in IP Settings. Contact your Internet Service Provider for more information.

- **Connected to your local network, but cannot connect to the Internet.**

  Check the DNS settings in IP Settings, or contact your Internet Service Provider to access the Internet.

- **Network setup complete, but cannot connect to the Internet.**

  Contact your Internet Service Provider to access the Internet.

Wi-Fi Direct

Menu → Network → Wi-Fi Direct

Set to connect the product to wireless mobile devices. Using this function, you can connect wireless mobile devices with your product directly without a router.

✎ You can use this function when connecting the Samsung Wireless LAN Adapter.

✎ To use this function, your mobile device should be supported by the Wi-Fi Direct.

To connect your mobile device with your product using Wi-Fi Direct, follow these steps:

1. Go to Wi-Fi Direct screen (Network → Wi-Fi Direct). The product starts to search devices.
2. Turn on the Wi-Fi Direct function on your device. Select the desired Wi-Fi device.
   - PBC: Press the WPS(PBC) button on your Wi-Fi device within 2 minutes. Your product automatically acquires all the network setting values it needs and connects to your network.
   - PIN: Input the displayed PIN on your device.

✎ If you want to disconnect the device, select the connected Wi-Fi device, and then select Disconnect.

Soft AP

Menu → Network → Soft AP

Using this function, you can connect the product on your mobile devices if your mobile devices do not support Wi-Fi Direct. Set the options for connection of Wi-Fi device.

- Soft AP

  Turns on or off the Soft AP. When Soft AP is set to On, your mobile devices can find the product name in Wi-Fi connection list.

- Security key

  Set the Security key manually using the remote control.

  - If the security key does not meet the required digit number, Done is not available.
  - Input the generated security key into the device you want to connect.
  - If network does not operate normally, check the security key again. An incorrect security key may cause a malfunction.

Network Features

AllShare Settings

Menu → Network → AllShare Settings

Selects whether to use media functions on the network. For details on set up options, refer to the “AllShare Settings” in the AllShare Play section. (page 114)

Device Name

Menu → Network → Device Name

Enter a name for this product. This name will be shown on network remote controls and devices using AllShare Play.

✎ A keyboard appears on the screen and you can key in a name for your product manually using your remote control. For example, if you want to change the name to Samsung product, select each character using your remote. When done, select Done.

Time

Menu → System → Time

✎ The time you set will appear when you press the INFO*i* button.

- Clock

  Set the clock to use the various timer features of the product.

  ✎ If you disconnect the power cord, you have to set the clock again.

  To set the clock, follow these steps:

  1. Go to Clock screen (System → Time → Clock).
  2. Select Auto or Manual.
     - If you selected Auto:

       The product will automatically download the correct time from a digital channel.

       – Select Time Zone, and then select your Time Zone.

       – Select DST (Daylight Savings Time). Select On if you want to turn the DST adjustment on and off manually. Select Off to turn off the DST adjustment.

       ✎ DST and Time Zone function are only available when the Clock Mode is set to Auto.

     - If you selected Manual:

       – The Clock Set screen appears. Set the Date and Time manually. You can set the current date and time using your remote.

       ✎ Available only when Clock Mode is set to Manual.

- Sleep Timer

  Automatically shuts off the product after a preset period of time. (30, 60, 90, 120, 150 and 180 minutes).

  ✎ Select a period of time using your remote. To cancel the Sleep Timer, select Off.

Preference Features

- On Timer

  Set On Timer so that your product turns on automatically at a time and on a day of your choosing. You can set up three separate On Timer configurations. (On Timer 1, On Timer 2, On Timer 3)

  ✎ You must set the clock before you can use the On Timer.

  Setup: Select Off, Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun or Manual. If you select Manual, you can select the days you want to activate the timer.

  ✎ The ✓ mark indicates days you've selected.

  Time: Set the time that the product turns on automatically.

  Volume: Set the desired loudness.

  Source: To select what will be turned on when the timer setting is activated. You can set the TV to turn on a specific channel or play back contents such as video, photo or audio files located in an external device connected to the TV.

  ✎ The USB device must be connected to your TV before you can select USB.

  Antenna (when the Source is set to TV): Select Air or Cable.

  Channel (when the Source is set to TV): Select the desired channel.

  Music / Photo (when the Source is set to USB): Select a folder in the USB device containing music or photo files you want played when the product turns on automatically.

  ✎ If there is no music file on the USB device or you don't select a folder containing a music file, the Timer function does not operate correctly.

  ✎ If there is only one photo file in the USB, the slide show will not play.

  ✎ If a folder name is too long, the folder cannot be selected.

  ✎ Each USB you use is assigned its own folder. When using more than one of the same type of USB, make sure the folders assigned to each USB have different names.

  ✎ We recommend that you use a USB memory stick and a multi card reader when using the On Timer. The On Timer function may not work with USB devices with a built-in battery, MP3 players, or PMPs made by some manufacturers because the product can take too long to recognize these devices.

  ✎ If you set the On Timer to play a file saved on a USB HDD, it may take up to 40 seconds or more to play the file after the product is turned on.

- Off Timer

  Set Off Timer so that your product turns off automatically at a time and on a day of your choosing. You can set up three separate Off Timer configurations. (Off Timer 1, Off Timer 2, Off Timer 3)

  ✎ You must set the clock before you can use the Off Timer.

  Setup: Select Off, Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun or Manual. If you select Manual, you can choose the days you want Off Timer to turn off your product.

  ✎ The ✓ mark indicates days you've selected.

  Time: Set the time that the product turns off automatically.

Economical Solutions

Eco Solution

Menu → System → Eco Solution

- Energy Saving

  Lets you adjusts the brightness of the product in order to reduce power consumption. If you select Picture Off, the screen is turned off, but the sound remains on. Press any button except the volume button to turn on the screen.

- No Signal Power Off

  To avoid unnecessary energy consumption, you can set how long you want the product to remain on if it's not receiving a signal.

  ✎ Disabled when an attached PC is in power saving mode.

- Auto Power Off

  The product will automatically turned off when no user operation is detected for 4 hours.

Security

Menu → System → Security

Using this function, you can configure channel related security options. Every time you access the Security functions, the PIN screen will appear and you must enter that PIN. The PIN screen closes and the Security menu appears.

- Program Rating Lock

  The Program Rating Lock feature lets you block programs you've determined are inappropriate for your children based on their ratings. To access the Program Rating Lock feature and make any changes, you must enter a PIN (personal identification number). To watch a blocked program, you must also enter the same PIN.

  ✎ The Program Rating Lock is not available in HDMI, Component or PC mode.

  ✎ The default PIN number for a new product set is “0-0-0-0”.

  TV Rating: You can block TV programs based on their ratings. This function allows you to control what your children can watch.

  The TV Rating displays a grid with locks. The following categories are on the left side:

  – TV-Y: Young children
  – TV-Y7: Children 7 and over
  – TV-G: General audience
  – TV-PG: Parental guidance
  – TV-14: Viewers 14 and over
  – TV-MA: Mature audience

  The following categories are on top:

  – ALL: Lock all TV ratings.
  – FV: Fantasy violence
  – V: Violence
  – S: Sexual situation
  – L: Adult Language
  – D: Sexually Suggestive Dialog

  ✎ To block certain content, select an entry field to lock (That is, you “click it”.). For example, click the lock at the intersection of V and TV-MA, and you block all programs that are rated violent and for mature adults.

  ✎ To unblock a category, click the lock icon. To unblock all the categories in a row, click the lock under ALL.

  ✎ To watch a blocked program, you must enter the PIN code when requested.

  Movie Rating (MPAA): You can block movies based on their MPAA rating. The Motion Picture Association of America (MPAA) has implemented a rating system that provides parents or guardians with advanced information on which films are appropriate for children.

Preference Features

Movie Rating (MPAA) displays a column with locks and the following ratings categories:

- G: General audience (no restrictions).
- PG: Parental guidance suggested.
- PG-13: Parents strongly cautioned.
- R: Restricted. Children under 17 should be accompanied by an adult.
- NC-17: No children under age 17.
- X: Adults only.
- NR: Not rated.

✎ To block certain content, select an entry field to lock (That is, you “click it”.). For example, click the X lock and you block all X-rated movies.

✎ The rating categories are also grouped so that clicking one category blocks all the categories a parent would block along with it. For example, if you block the PG-13 category, then R, NC-17 and X will automatically be blocked also.

✎ To unblock a category, click the lock icon.

Canadian English Rating: You can block TV programs based on their Anglophone Canadian ratings.

Canadian English Rating displays a column with locks and the following ratings categories:

- C: Programming intended for children under age 8.
- C8+: Programming generally considered acceptable for children 8 years and over to watch on their own.
- G: General programming, suitable for all audiences.
- PG: Parental Guidance.
- 14+: Programming contains themes or content which may not be suitable for viewers under the age of 14.
- 18+: Adult programming.

✎ To block certain content, select an entry field to lock (That is, you “click it”.). For example, click the 18+ lock and you block all TV programs rated 18+.

✎ The rating categories are also grouped so that clicking one category blocks all the categories a parent would block along with it. For example, if you block the G category, then PG, 14+ and 18+ will automatically be blocked.

✎ To unblock a category, click the lock icon.

Canadian French Rating: You can block TV programs based on their French Canadian ratings.

Canadian French Rating displays a column with locks and the following ratings categories:

- G: General
- 8 ans+: Programming generally considered acceptable for children 8 years and over to watch on their own.
- 13 ans+: Programming may not be suitable for children under the age of 13.
- 16 ans+: Programming is not suitable for children under the age of 16.
- 18 ans+: Programming restricted to adults.

✎ To block certain content, select an entry field to lock (That is, you “click it”.). For example, click the 18 ans+ lock and you block all TV programs rated 18 ans+.

✎ The rating categories are also grouped so that clicking one category blocks all the categories a parent would block along with it. For example, if you block the 8 ans+ category, then 13 ans+, 16 ans+ and 18 ans+ will automatically be blocked also.

✎ To unblock a category, click the lock icon.

Downloadable U.S. Rating: Parental restriction information you can use while watching DTV channels.

✎ If information is not downloaded from the broadcasting station, the Downloadable U.S. Rating menu is deactivated.

✎ Parental restriction information is automatically downloaded while you watch DTV channels. It may take several seconds.

✎ The Downloadable U.S. Rating menu is available for use after information is downloaded from the broadcasting station. However, depending on the information from the broadcasting station, it may not be available for use.

✎ Parental restriction levels differ depending on the broadcasting station. The default menu name and the Downloadable U.S. Rating change depending on the downloaded information.

✎ Even if you set the on-screen display to another language, the Downloadable U.S. Rating menu will appear in English only.

✎ Blocking one rating level will automatically block other categories that deal with more sensitive material.

✎ The rating titles (For example: Humor Level..etc) and TV ratings (For example: DH, MH, H..etc) may differ depending on the broadcasting station.

- Change PIN

The Change PIN screen will appear. Choose any 4 digits for your PIN and enter them in Enter New PIN fields. Re-enter the same 4 digits in Confirm New PIN fields. When the Confirm screen disappears, select Close. The product has memorized your new PIN.

How to watch a restricted program or movie

If the product is tuned to a restricted program or movie, the Program Rating Lock will block it.

The screen will go blank and a pop-up message appears. Enter the PIN to unblock the program or movie using your remote.

✎ If you forget the PIN code, press the remote control buttons in the following sequence in Standby mode, which resets the PIN to “0-0-0-0”: MUTE → 8 → 2 → 4 → (power on).

Picture In Picture (PIP)

PIP

Menu → System → PIP

You can watch a program whose signal has passed through the product's tuner and video from one external video source simultaneously.

For example, if you have a cable box connected to the Cable In jack, you can use PIP to watch programs from the cable box and a movie from a Blu-ray player attached to the HDMI In jack.

✎ While Smart Hub or Program Rating Lock is on, you cannot use the PIP.

- PIP

  Activate or deactivate the PIP function.

- Air/Cable

  Select either Air or Cable as the input source for the sub-picture screen.

- Channel

  Select the channel for the sub-picture screen.

- Size

  Select a size for the sub-picture screen.

- Position

  Select a position for the sub-picture screen.

- Sound Select

  You can choose to listen to the sound from the main picture or the sub picture.

  ✎ If you turn the product off while watching in the PIP mode, the PIP function is reset to Off. When you turn your product on, you must turn PIP on again to watch in the PIP mode.

  ✎ You may notice that the picture in the PIP screen becomes slightly unnatural when you use the main screen to view a game or karaoke.

  ✎ PIP Settings: The picture from the external video source will be in the main screen and the picture from the product's tuner will be in the PIP sub-picture screen.

  – Main picture: Component, HDMI, PC

  – Sub picture: TV

Device Manager

Menu → System → Device Manager

Using this function, you can set up input devices to use with the product. You can check your device list and adjust the settings in this menu.

✎ Depending on the model of the USB HID keyboard and mouse may not be compatible with your TV.

- Keyboard Settings

  Lets you use a USB keyboard with your product. If you want to use a USB keyboard, connect it on the USB port.

  ✎ Available only when the QWERTY keypad screen appears in the Web Browser.

  Select Keyboard

  Select which keyboard to use from your keyboard list. you can only use one keyboard, even if several are connected.

  Keyboard Options

  Sets the default options for the keyboard language and type.

  – Keyboard Language: Set a language for your keyboard.
  – Keyboard Type: Set what a type a keyboard you're using to enter text.
  – Switch Input Language: Select a key sequence to change switching input language.

- Mouse Settings

  Lets you use a USB mouse with your product. If you want to use a USB mouse, connect it on the USB port.

  Using your product to use a mouse, you can use the product's menu in the same way as on a PC.

  Select Mouse

  Select which mouse to use from your mouse list. you can only use one mouse, even if several are connected.

  Mouse Options

  Sets the default options for the mouse buttons.

  – Primary Button: Select the main button you want to use click and select on screen.
  – Pointer Size: Set the size of the on-screen mouse pointer.
  – Pointer Speed: Select the speed of the mouse pointer.

  Using the product's menu with a mouse

  1. Connect a USB mouse on your product.
  2. Click a primary button you selected. The Mouse Tools appears.
  3. Click a menu you wish, and then you can use the menu to same way as on a PC.

Other Features

Menu Language

Menu → System → Menu Language

Set the menu language.

1. Select the Menu Language.
2. Choose a language you want to use among English, Español, and Français.

Caption

(On-Screen Text Dialogue)

Menu → System → Caption

- Caption

  You can switch the caption function on or off. If captions are not available, they will not be displayed on the screen.

  ✎ The Caption feature does not work with devices connected to the product through the Component, HDMI or PC input jacks.

- Caption Mode

  You can select the desired caption mode.

  ✎ The availability of captions depends on the program being broadcast.

  Default / CC1 – CC4 / Text1 – Text4: (analog channels only) The analog caption function operates in either analog TV channel mode or when a signal is supplied from an external device to the product. (Depending on the broadcasting signal, the analog caption function may or may not work with digital channels.)

  Default / Service1 – Service6 / CC1 – CC4 / Text1 – Text4: (Digital channels only) The digital caption function works with digital channels.

  ✎ Service1 – Service6 may not be available in digital caption mode depending on the broadcast.

Preference Features

- Digital Caption Options

  (Digital channels only)

  Adjusts the each option.

  Size: Options include Default, Small, Standard and Large. The default is Standard.

  Font Style: Options include Default and Style0 to Style7. The default is Style0.

  Foreground Color: You can change the color of the letters.

  Options include Default, White, Black, Red, Green, Blue, Yellow, Magenta and Cyan. The default is White.

  Background Color: You can change the background color of the captions. Options include Default, White, Black, Red, Green, Blue, Yellow, Magenta and Cyan. The default is Black.

  Foreground Opacity: This adjusts the opacity of text. Options include Default, Transparent, Translucent, Solid and Flashing.

  Background Opacity: This adjusts the opacity of the caption background. Options include Default, Transparent, Translucent, Solid and Flashing.

  Return to Default: This option sets each Size, Font Style, Foreground Color, Background Color, Foreground Opacity and Background Opacity to their defaults.

  ✎ Digital Caption Options are available only when you can select Default and Service1 – Service6 in Caption mode.

  ✎ The availability of captions depends on the program being broadcast.

  ✎ The Default setting follows the standards set by the broadcaster.

  ✎ You cannot set both the Foreground Color and the Background Color to the same color.

  ✎ You cannot set both the Foreground Opacity and the Background Opacity to the same setting.

Auto Protection Time

If the screen displays a still image for a certain period of time you define, the product activates the screen saver to prevent the formation of burnt in ghost images on the screen.

Preference Features

General

Menu → System → General

- Max. Power Saving

  When the product is attached to a PC, conserves power by turning the product off when the PC is not used for period of time you specify.

  ✎ Available only when the Source is set to PC.

- Game Mode

  When you have connected a game console such as a PlayStation™ or Xbox™ to the product, you can enjoy a more realistic gaming experience by turning on the Game Mode function.

  Precautions and limitations for Game Mode

  – Before you disconnect the game console and connecting another external device, set Game Mode to Off.

  – If you display the product menu in Game Mode, the screen shakes slightly.

  ✎ Game Mode is not available when the input source is set to TV or PC.

  ✎ Set Game Mode to On only after connecting a game console. If you turn Game Mode on before you have attached the game console, you may notice slightly reduced picture quality.

  ✎ If the Game Mode is set to On, the Picture Mode is set to Standard and the Sound Mode is set to Movie automatically.

- BD Wise

  Provides the optimal picture quality for Samsung DVD, Blu-ray and Home Theater products which support BD Wise. When the BD Wise is set to On, the picture mode is automatically changed to the optimal resolution.

  ✎ Available when you connect Samsung products that support BD Wise through an HDMI cable to the product.

- Menu Transparency

  Adjust transparency of menu box.

- Sound Feedback

  Your product gives sound feedback when you use product. Sound Feedback is enabled by default. Turn off Sound Feedback or adjust its volume.

- Panel Lock

  Lock or unlock all the keys on the front panel at once. When Panel Lock is on, none of the keys on the front panel operate.

- Connect USB Hub to

  The USB Hub can be connected to the PC via a USB cable. USB Hub can't support TV when connected to the PC.

- Boot Logo

  Displays the Samsung logo when the product is turned on.

Preference Features

Anynet+ (HDMI-CEC)

Menu → System → Anynet+ (HDMI-CEC)

Allows you to control all connected Samsung devices that support anynet+ with your Samsung product's remote. For details on set up options, refer to the "Anynet+ (HDMI-CEC)" instructions. (page 132)

DivX® Video On Demand

Menu → System → DivX® Video On Demand

Shows the registration code authorized for the product. If you connect to the DivX web site and register with 10-digit registration code, you can download the VOD activation file. Once you play it using AllShare Play, the registration is completed.

✎ For more information on DivX(R) VOD, visit http://vod.divx.com.

Support Menu

Self Diagnosis

Menu → Support → Self Diagnosis

- Picture Test

  Use to check for picture problems. Picture Test displays a high definition picture that you can examine for flaws or faults.

  Yes: Select Yes if the test picture does not appear or there is noise or distortion in the test picture. There may be a problem with the product. Contact Samsung's Call Center for assistance.

  No: Select No if the test picture displays properly. There may be a problem with your external equipment. Please check your connections. If the problem persists, refer to the external device's user manual.

- Sound Test

  Use the built-in melody to check for sound problems.

  ✎ If you hear no sound from the product's speakers, before performing the sound test, make sure Speaker Select is set to TV Speaker in the Sound menu, and then try the speakers again.

  ✎ You will hear the melody during the test even if you have set Speaker Select to External Speaker or have muted the sound.

  Yes: Select Yes if you can hear sound from only one speaker or from neither speaker during the sound test. There may be a problem with the product. Contact Samsung's Call Center for assistance.

  No: Select No if you can hear sound from the speakers. There may be a problem with your external equipment. Please check your connections. If the problem persists, refer to the external device's user manual.

- Signal Information

  (digital channels only)

  The reception quality of over-the-air HD channels is either perfect or the channels are unavailable. Signal Information displays HD channel signal strength so you can adjust your antenna to increase signal strength and receive HD channels.

- Reset

  Reset all setting to factory defaults except for your network settings.

  To reset your product to default setting, follow these steps:

  1. Go to the Reset menu. (Support → Self Diagnosis → Reset)
  2. The PIN input screen appears. Enter the PIN using your remote.
  3. When done, the PIN screen disappear automatically. The message All the settings will return to factory defaults. appears.
  4. Select Yes. All settings have been reset. The product will turn off and on again automatically. The Setup screen appears. For more information about Setup, see user manual.

Software Update

Menu → Support → Software Update

The Software Update menu lets you upgrade your product's software to the latest version.

Current Version: This is the software version already installed in the product.

Upgrading to the Latest Version

You can upgrade in four ways:

- By USB
- Online
- Alternative Software
- Standby Mode Upgrade

The four methods are explained in the following pages.

✎ Be careful not to turn off the power until the upgrade is complete. The product will turn off and on automatically after completing the software upgrade. When you upgrade software, all video and audio settings you have made will return to their default settings. We advise you to write down your settings so that you can easily reset them after the upgrade.

Preference Features

- By USB

  To upgrade the By USB, follow these steps:

  1. Visit www.samsung.com.
  2. Download the latest USB software upgrade exe archive to your computer.
  3. Extracts the exe archive to your computer. You should have a single folder with the same name as the exe file.
  4. Copy the folder to a USB flash drive.
  5. Turn on the product, and then insert the USB flash drive into the USB port of the product.
  6. In the product's menu, go to Support → Software Update.
  7. Select By USB.

  ✎ Please be careful not to remove the USB drive until the upgrade is complete.

- Online

  The Online function lets you download the upgrade software directly from the Internet into your product and then upgrade the software in one operation. To use Online, you must have configured your product to connect to your network and the product must be connected to the Internet. See the "Setting up the Wired or Wireless Network" instructions.

  To upgrade using the Online, follow these steps:

  1. Select the Online. The Connecting to Server message appears.
  2. If there is a download available, the Download pop-up appears with a progress bar and the download starts.
  3. When the download is complete, the Upgrade Query screen appears with three choices: Upgrade Now, Upgrade Later, or Don't Upgrade.
     - If you select the Upgrade Now, the product upgrades the software, turns off, and then turns on automatically.
     - If you do not make a selection in one minute or select the Upgrade Later, the product stores the new upgrade software. You can upgrade the software later using the Alternative Software function.
     - If you select the Don't Upgrade, the product cancels the upgrade.

- Alternative Software

  The Alternative Software option lets you upgrade using a file the product downloaded earlier, but you decided not to install immediately, or a file downloaded by the product in Standby Mode (See Standby Mode Upgrade on the next section).

  To upgrade using Alternative Software, follow these steps:

  1. If upgrade software has been downloaded, you will see the software version number to the right of Alternative Software.
  2. Select Alternative Software.
  3. The product displays a message asking if you want to upgrade. Select Yes. The product begins the upgrade.
  4. When the upgrade is complete, the product turns off automatically, and then turns on.

Preference Features

- Standby Mode Upgrade

  You can set the Standby Mode Upgrade function so that the product downloads new upgrade software when it is in Standby mode.

  In Standby mode, the product is off, but its Internet connection is active. This allows the product to download upgrade software automatically, when you are not using it. Because the product is turned on internally, the screen may glow slightly. This phenomenon may continue for more than 1 hour until the software download is complete.

  To set Standby Mode Upgrade, follow these steps:

  1. Select the Standby Mode Upgrade.
  2. Select On or Off.
     - Off: If you select Off, the product will notify you with a pop up message when new upgrade software is available.
     - On: If you select On, the product will automatically download new upgrade software when it is in Standby mode with the power off. If it downloads new upgrade software, the product will ask you if you want to install it when you turn the product on.

  ✎ To use the Standby Mode Upgrade function, your product must be connected to the Internet.

Contact Samsung

Menu → Support → Contact Samsung

View this information when your product does not work properly or when you want to upgrade the software. You can find information regarding our call centers and how to download products and software.

Remote Management

Menu → Support → Remote Management

The Call Center will access your Samsung Product remotely to check internal information. Remote Management can control user settings and troubleshoot a problem.

Smart Hub

Menu → Support → Smart Hub

Smart Hub lets you connect to the Internet and enjoy variety of Internet and multimedia contents. For more information on how to use the Smart Hub, see Smart Hub section of this manual. (page 88)

Advanced Features

Smart Hub

Menu → Support → Smart Hub

Using this function, you can stream movies, videos, and music from the Internet, access various for pay or free-of-charge applications and view them on your product.

Application content includes news, sports, weather forecasts, stock market quotes, maps, photos, and games.

✎ You can also start this function by pressing the button on the remote control.

Notice

- Samsung Electronics takes no legal responsibility for any interruption of the Smart Hub service caused by the service provider for any reason.
- Application services may be provided in English only and the contents available may vary, depending on your area.
- For more information about a Smart Hub service, visit the web site of the applicable service provider.
- The Smart Hub service downloads and processes data via the Internet so that you can enjoy the Internet contents on your product screen. If the Internet connection is unstable, the service may be delayed or interrupted. Furthermore, the player may turn off automatically in response to conditions on the Internet. If this occurs, check the Internet connection and try again.
- The services provided are subject to change by the Smart Hub service provider without notice.
- The Smart Hub service contents may differ depending on the player's firmware version.
- For pay DivX contents with copy protection can only be played through a composite, a component or an HDMI cable.

To start Smart Hub for the first time, follow these steps:

1. Press the button.
2. The Smart Hub screen appears. In a few cases, the Country screen appears immediately after.
3. If the Country screen has appeared, select your country using your remote.

   ✎ Some applications are available only in certain countries.
4. The General Disclaimer screen appears. Select Agree.

   ✎ Screens can take a few seconds to appear.
5. The Privacy Policy screen appears. Select Agree.
6. The Service Update screen appears and installs a number of services and applications. When done, it closes. The applications and services downloaded are displayed on the Smart Hub screen. This may take some time.

   ✎ Smart Hub may close momentarily during the installation process.

   ✎ A number of screens may appear after installation. You can close them or let them close on their own.
7. To start an application, select an application using your remote.

Advanced Features

Using the Numeric Keypad

Selecting – using your remote while you are using the Screen Keypad enables you to change the text fields to lower case, capitalized case, upper case, numbers and icons.

You can use this Screen Keypad in a several Smart Hub applications.

Method 1: Using the keypad of ABC type.

1. For example, suppose that you want to input “105Chang”.
2. Select – 3 times using your remote to change the input mode from lower case to numbers.
3. Select 1, 0 and 5 in numerical order.
4. Select – 3 times using your remote to change the input mode from numbers to upper case.
5. Select 2 3 times using your remote to input C.
6. Select – 3 times using your remote to change the input mode from upper case to lower case.
7. Input the rest of “Chang” using your remote in the same way. When done, select OK.

Method 2: Using the Keypad of XT9 type.

1. For example, suppose that you want to input “105Chang”
2. Select – 3 times using your remote to change the input mode from lower case to numbers.
3. Select 1, 0 and 5 in numerical order.
4. Select – 3 times using your remote to change the input mode from numbers to capitalized case.
5. Select in sequence: 2, 4, 2, 6, 4. A window will appear displaying a list of words that can be entered using the selected numbers. Select “Chang” from the list by selecting D using your remote.

✎ If “Chang” cannot be found in the list, select + to create your own dictionary. Add your own word to your dictionary.

Advanced Features

Using the QWERTY Keypad

You can use this Screen Keypad in a several Smart Hub applications in same way as a keyboard.

Using the colored and function buttons with the QWERTY Keypad

- A Delete All

  Delete all inputted character.

- B Numeric / QWERTY

  Toggles the keypad mode between Numeric mode and QWERTY mode.

  ✎ When the keypad is set to QWERTY mode, you can input a character using a USB keyboard connected on the product.

- Settings

  Displays the options menu.

  Input Language: select a input language between English, Español, and Français.

  XT9 Text Input: Turns on or off the recommended word function.

- Enter

  Enter the selected character.

- Return

  Return to the previous menu.

- Prev Page

  Move to the previous keypad.

  ✎ Available only when the keypad screen is icon mode.

- Next Page

  Move to the next keypad.

  ✎ Available only when the keypad screen is icon mode.

Creating an Account

To establish your own, exclusive, configuration of Smart Hub, create your own Samsung account.

✎ You must use an e-mail address as an ID.

✎ You can register up to 10 User Accounts.

✎ You do not need an account to use the Smart Hub.

To create an account, follow these steps:

1. On the Smart Hub screen, select A using your remote. The Login screen appears.
2. Select Create Account using your remote. The Create Account screen appears.
3. Select Samsung Account. An entry screen and keypad appear.
4. Use the keypad to enter your e-mail address. This will serve as your ID.
5. When done, select OK. The Login screen reappears.
6. Select Password. The Password screen and a keypad appear.
7. Use the keypad to enter a password. The password can be any combination of letters, numbers, and symbols.

   ✎ If you select A using your remote, the product show or hide the password as you enter it.
8. When done, select OK.
9. Select Confirm password. The Password screen and a keypad re-appear.
10. Repeat Steps 7 and 8.
11. When done, select Create Account. The Confirmation window appears.
12. Select OK. The Continue to register service ID window appears.
13. Select OK.

    ✎ If you don't have existing provider accounts or do not want to register existing accounts at this time, select Cancel. You can also let the window close on its own in about a minute.
14. The Register Service Account window appears.

    ✎ If you have existing accounts with any of the listed providers, you can associate the provider account and the provider account password with your Samsung account. Registration makes it easier to access the providers web site. For registration instructions, go to Step 2 in Account Manager under Settings in the "Configuring the Smart Hub with Settings" section of this manual. (page 95)

Advanced Features

Customizing the Home Screen

- A Login / Logout

  To log in to your Samsung account, follow these steps:

  1. With the Smart Hub main screen displayed on your product, select A using your remote. The Login screen appears.
  2. Select the ▼ next to the Samsung Account.

     ✎ If you want to input the Samsung Account. The keypad screen appears. Then you can input your Samsung Account manually.
  3. Select your ID from the list that appears. The Login screen re-appears.
  4. Select Password. The Password window and a keypad appears.
  5. Enter your password using your remote. When done, select OK.

  ✎ If you want Smart Hub to enter your password automatically, select Remember my password after you have entered your password. A ✓ mark appears. The Smart Hub will now enter your password automatically when you select or enter your ID.

  ✎ If you want to log in the Smart Hub automatically when the Smart Hub function starts, select Sign me in automatically. A ✓ mark appears.

  ✎ When you forgot password, you can reset your Samsung account password. Select B using your remote. A pop-up message appears, and the select OK. The guide to resetting your password will be sent to your e-mail.

- B WallPaper

  You can change a background image the Smart Hub home screen.

- C Account Manager

  Lets you register your service provider accounts, delete or deactivate your Samsung account, and register or reset your face recognition. For more information about Account Manager, refer to "Configuring the Smart Hub with Settings" in this section.

  ✎ Available only when you logged in the Smart Hub.

Advanced Features

Using the Tools menu with Smart Hub

- Login / Logout

  Log in or log out to your Samsung account.

- WallPaper

  You can change a background image the Smart Hub home screen.

- Move

  The Move function lets you change the screen position of an application or a folder.

  To use the Move function, follow these steps:

  1. Select an application or a folder, and then open the Tools menu using your remote.
  2. Select Move. A position change screen appears.
  3. Move the icon using your remote. When the icon is in the position of your choice, select the icon. The application moves to its new location.

- Move to Folder

  The Move to Folder function lets you move an application to a folder.

  To use the Move to Folder function, follow these steps:

  1. Select an application, and then open the Tools menu using your remote.
  2. Select the Move to Folder. The Move to Folder window opens.
  3. Select a folder using your remote. A move finished message appears, and then closes. The application has been moved to the folder.

  ✎ Also, if you select an application in a folder, the application can be moved to the Smart Hub screen.

  To access an application in a Folder

  1. On the Smart Hub screen, select a folder. The folder opens.
  2. Select an application you want to execute. The application service starts.

- Delete

  The Delete function lets you delete application from the Smart Hub.

  To use the Delete function, follow these steps:

  1. Select an application, and then open the Tools menu using your remote.
  2. Select Delete. The message Do you want to delete selected item(s)? appears.
  3. Select OK. The application is deleted.

- New Folder

  The New Folder function lets you create and name new folders. Once you have created a folder, you can move applications into it.

  To use the New Folder function, follow these steps:

  1. Open the Tools menu using your remote.
  2. Select New Folder. The New Folder window and a keypad screen appears.
  3. Enter the name of the folder using your remote.
  4. When done, select OK. The New Folder screen closes and the New Folder appears on the Smart Hub screen.

- Rename Folder

  The Rename Folder function lets you rename folders.

  To use the Rename Folder function, follow these steps:

  1. Select a folder, and then open the Tools menu using your remote.
  2. Select Rename Folder. The Rename Folder window and a keypad screen appears.
  3. Enter a new name using your remote.
  4. When done, select OK. The Rename Folder window closes and the new name appears below the folder.

- Lock

  The Lock function lets you lock some application in Smart Hub so they cannot be opened without entering the password.

  ✎ Depending on the application, this function may not be supported.

  To use the Lock function, follow these steps:

  1. Select an application, and then open the Tools menu using your remote.
  2. Select Lock. The Security window appears.
  3. Enter your password using your remote. If you do not changed a password, enter “0-0-0-0”.
  4. A confirming message screen appears. A lock symbol appears left to the application.

- Unlock

  ✎ Depending on the application, this function may not be supported.

  To use the Unlock function, follow these steps:

  1. Select an application, and then open the Tools menu using your remote.
  2. Select Unlock. The Security window appears.
  3. Enter your password using your remote. If you do not changed a password, enter “0-0-0-0”.
  4. A confirming message screen appears. A lock symbol disappears.

- Information

  You can view the detailed information about the selected application.

  ✎ Depending on the application, you can also lock or unlock the application in the Detailed Information screen.

Advanced Features

Configuring the Smart Hub with Settings

The Settings menu gives you access to account management, account reset, and account properties functions.

1. Open the Tools menu using your remote.
2. Select Settings. The Settings window appears.
3. Select a menu item using your remote.

- Account Manager

  The Account Manager menu contains functions that let you register your service provider accounts, change your Smart Hub password, and delete or deactivate your Samsung account.

  Link to other accounts: If you have existing accounts with any of the providers listed by the Link to other accounts function, you can associate the provider account and the provider account password with your Samsung account. If you associate the account, you will be able to log onto the account through Smart Hub easily, without entering your account name or password.

  ✎ Before register your site account, corresponding application should be installed in the Smart Hub.

  To use the Link to other accounts function, follow these steps:

  1. In the Account Manager menu, select the Link to other accounts. The Link to other accounts window appears.
  2. Select an application you want to associate with your Samsung account, and then select Register. The keypad screen appears.
  3. Enter your site ID and password using your remote. When done, select OK.

     ✎ This is the ID and password you normally use to access your account on this application.
  4. If you have entered the ID and password correctly, the Registered successfully. message appears.
  5. If want to add another service application, and then repeat Steps 2 through 4 to associate another service application.
  6. When done, select OK.

  Remove from TV Account List: Cancels all your current registered Service Accounts that you registered on the Register Service Account screen.

  Deactivate Account: Deactivates your Samsung Account and deletes it and all your account settings entirely from the Smart Hub.

- Service Manager

  Auto Ticker: You can set Auto Ticker to come on when powering on the product.

  ✎ The Ticker application provides useful News, Weather, and Stock Market information. The Ticker application on Smart Hub must be downloaded to use this feature.

  ✎ Depending on your country, the Ticker application may have a different service or not be supported.

  Push Notification Settings: When on, Push Notification that displays a notification message when an event takes place in an application installed on Smart Hub. The product will display the notification message and allow you to view details of the event even while you are viewing TV.

- Reset

  The Reset function initializes all downloaded applications, erases all user accounts and settings from the product, and resets all Smart Hub settings to the factory default settings. It then restarts Smart Hub as if it were starting for the first time.

  Your account, however, remains on the Smart Hub server. To log into your account, enter your ID and password on the Login screen.

  To use the Reset function, follow these steps:

  1. In the Settings menu, select Reset. The Reset screen appears.
  2. Enter the your security password using your remote.

     ✎ The default password set is “0-0-0-0.”

     ✎ If you forget the PIN code, press the remote control buttons in the following sequence in Standby mode, which resets the PIN to “0-0-0-0”: MUTE → 8 → 2 → 4 → (Power on).
  3. After a few moments, the Smart Hub automatically resets. The screen may go black, then Smart Hub re-appears. In a few moments, it starts the reinitialization procedure.
  4. To complete the re-initialization, go to Step 2 in "To start Smart Hub for the first time, follow these steps:" section of this manual. (page 88)

- About Smart Hub

  The About Smart Hub menu contains functions that display information about Smart Hub.

  Detail: Lists information about Smart Hub including version number, memory usage, and the unique product ID.

  Terms of Service Agreement: Display the Terms of Service Agreement.

Samsung Apps

→ Samsung Apps

Samsung Apps is a store from which you can download applications to use on Samsung TV/AV equipment.

You can enjoy a variety of contents such as videos, music, photos, games, useful information etc. using the downloaded applications.

New applications are added regularly.

Using the colored and function buttons with the Samsung Apps

- A Login / Logout

  Log in or log out to your Samsung account.

- B Filter by Price

  To toggle the view between All, Paid and Free.

- C Sort

  To sort the applications by Recommended, Name, Date, or Downloaded.

  ✎ You can sort all categories except Most Popular.

- D View Mode

  Each time you select D using your remote, the View Mode toggles between basic mode and thumbnail mode.

- ◀◀ Previous

  Move to previous page.

- ▶▶ Next

  Move to next page.

- Tools

  Displays the option menu.

- Return

  Moves to previous menu.

Advanced Features

Using the Samsung Apps by category

The following categories are available:

- What's New?

  User can easily find newly (latest) registered application.

- Most Popular

  Displays the most popular applications for users.

- Videos

  Includes apps that provide video media such as movies, product shows and short length videos.

- Games

  Includes various game apps such as sudoku and chess.

- Sports

  Includes apps that provide sports content such as game results, images and short length video.

- Lifestyle

  Includes apps that provide lifestyle media services such as music, personal photo management tools, and social networking such as Facebook and Twitter.

- Information

  Includes apps that provide information content such as news, financial information, stock quotes, weather, etc.

- Education

  Includes apps that provide education contents such as story book, dictionary, VOD (Video on Demand) for kids etc.

- My Apps

  My Apps offers information about your available App cash coupon, purchased app list or already installed applications on your product like detailed information, download contents etc.

  ✎ You can purchase App cash that you can use to buy applications through tv.samsungapps.com.

- Help

  If you have questions about the Samsung Apps, check this section first.

To search an application in Samsung Apps, follow these steps:

1. On the Samsung Apps screen, select Search Samsung Apps. The Search window appears.
2. Enter a keyword you want to search using your remote.
3. When done, select an entry field.
4. Wait until the search result screen displays. Then you can select an application you want in the search result screen.

✎ You can find the keyword in the search history If you searched a keyword before.

Advanced Features

Search

→ Search

(May not be available, depending on your country.)

Easily search for and access content from diverse sources (e.g. applications, Your Video, AllShare Play)

1. On the Smart Hub screen, select Search.
2. If you want to input a search term directly, select an entry field. A keypad screen appears. Enter the search term using your remote.

   ✎ If you want to search by category, select a category using your remote.

Using the Search function by category

- Your Video

  Personalize your movie-watching with a customized video on demand (VOD) recommendation service.

- Most Searched

  You can search by selecting a key word in the key word list. The key word list displays words you frequently use for searches.

- Top Application

  You can search applications and services in the application list. The application list displays apps that users download frequently.

- Search History

  You can find the keyword in the search history if you searched a keyword before.

Using the colored and function buttons with the Search

- B Refresh

  Refresh the Search function.

- Tools

  You can set a general setting for Search function or delete the search history.

- Return

  Return to the previous menu.

Advanced Features

Using the Tools menu with Search

- General Settings

  Keyword Recommendation: Turns on or off the Keyword Recommendation function.

  Search Scope: Sets a search scope. The default is allowed all application.

  To customize a search scope you want, follow these steps:

  1. On the Search screen, open the Tools menu using your remote.
  2. Select General Settings.
  3. Select an application in the Search Scope. A ✓ mark disappears in the check box.
  4. When done, Press the RETURN button.

- Search History

  You can delete the keyword in the search history. Also, If you select Delete All, delete all your search history.

- Preferences

  You can edit your zip code, provider or set-top-box.

  To edit your preferences, follow these steps:

  1. On the Search screen, open the Tools menu using your remote.
  2. Select Preferences.
  3. Select Edit to update your preferences. (Zip code, Provider, Set-top-box)
  4. A pop-up message Enter zip code and provider for Internet contents services. appears. Select Yes. The Zip code screen appears.
  5. Enter your postal code using your remote. When done, select OK. The Provider screen appears.
  6. Select your provider.
  7. A pop-up message Do you have cable, satellite, or other TV service with a set-top box? appears. If you have a set-top box, select Yes. If you don't have a set-top box, select No.

Advanced Features

Your Video

→ Your Video

(May not be available, depending on your country.)

Using this service from the Smart Hub, you can get video recommendation and search for movies from multiple providers.

Using the Your Video

1. On the Smart Hub screen, select Your Video.
2. Enjoy your movie watching with a customized video on demand (VOD) recommendation service.

Advanced Features

Family Story

→ Family Story

Family Story feature allows you to share photos, messages, and events with your family.

- Create Group

  If you are starting Family Story for the first time among your family members, you can create a group and invite members.

- Invite Members

  After creating a group, you can invite your family members who you want to share your family's photos and events with.

- Join Group

  If you were invited to this service from your family member, you can select Join Group to enjoy Family Story service.

To create a family group, follow these steps:

1. On the Smart Hub screen, select Family Story. The Family Story screen appears.
2. Select Create Group. The Create Group screen appears.
3. Select AGREE. It is required to agree with the terms prior to using Family Story.
4. Enter a Group Name, Your Name and Your Phone Number using your remote.

   ✎ If you want to add a group image, select an image box. (An external device containing photos must be connected to your product via USB.)

   ✎ * Fields marked with an asterisk are required.

5. When done, select Done. The group creation is completed.

   ✎ If you want to invite members to your group, select Invite Members. If you want to go your Family Story, select Go to Family Story.

To invite members to your Family Story, follow these steps:

1. From the starting menu of Family Story, open the Tools menu using your remote, and then select Group Members. The Group Members screen appears.
2. Select Invite Members. The Invite Members for your Family Story screen appears.
3. Select Select to enter Name.. The keypad screen appears.
4. Enter member's name using your remote. When done, select Done.
5. Select Phone number or Samsung account ID. The keypad screen re-appears.
6. Enter member's phone number or samsung account ID using your remote. When done, select Done.
7. When done, select Done.

   ✎ If you want to add more members, select Add member, and repeat the Step 3 and 7.
8. New member invitation has been completed.
9. If invited by phone number, 4-digit invite code will be generated and the code need to be shared with the member. If invited by Samsung Account, the member will be notified about the invitation via e-mail. Select OK to finish.

To join a group using the received invite code, follow these steps:

1. Start Family Story and accept the terms.
2. You will see a pop-up message asking about invitation type. If you were invited by phone number, please select Invite Code, or if you were invited by Samsung account, please select Samsung Account.
3. If joining by Samsung Account, a list of invitation from your family groups will be displayed. Select Accept to join. You can select Deny if you don't want to join the invited group.
4. If joining by Invite Code, firstly enter your phone number using your remote. When done, select Done. Then you will see a list of invitations from your family groups. Select Accept to join. You can select Deny if you don't want to join the invited group. Enter the 4-digit invite code shared by your family member, and then select Done to finish.
5. Select OK. Joining your family group has been completed.

Fitness

→ Fitness

Using this function provided by Smart Hub, Lets you manage Fitness using the exercise-related application downloaded in the Samsung Apps.

✎ To use the Fitness, you should be logged in Smart Hub.

Read these note before exercising...

✎ Please do a warm-up or stretch before exercising.

✎ Stop exercising immediately if you feel pain, or dizzy, exhausted, or short of breath.

Create Your Profile

When you start Fitness for the first time, you should create your own profile. On Fitness screen, select Create Your Profile. A pop-up message appears. Select Create Your Profile.

✎ To go to next step, move to right side using your remote.

1. Name: Select First Name and Last Name to put in a new user name. The keypad screen appears. Enter your name using the remote. When done, Select OK.
2. Gender: Select your gender.
3. Birthdate: Enter your birthdate using your remote. It will be used to personalize some things for you.
4. Units: Select your preferred units. The selected units will be applied all over Fitness.
5. Height: Enter your height. This will be used to calculate your body max index (BMI).
6. Weight: Enter your weight. This will be used to calculate your body max index (BMI).
7. Complete: Creation of your profile is finished. The product displays the information of your profile and BMI. To start the Fitness, Select Enjoy Fitness.

Using the Fitness with categories

- Exercise

  Provide information on your exercise goal, current status and recommended contents.

- Progress

  Provide information on your basic body profile, exercise progress, achievements for your goals.

Advanced Features

Kids

→ Kids

Using this function provided by Smart Hub, lets you provides a quick launcher and the recommended list to access the kids or education-related application or contents easily and quickly. Also, it helps user (parents) to manage your kids.

Using the Kids with categories

- Playground

  Displays recommended contents and applications. When you select an application or content, the product executes an application or contents immediately.

  ✎ The maximum number of contents list is 40.

  ✎ The contents list can be edited by user (parents). For more detailed information, refer to "My Choice" in this section.

- Sticker Book

  Displays the Sticker Books collected stickers which your kids received. Also, it can be share with your Family Story.

  Your kids can receive the sticker through these methods:

  – **By User (parent)**: Presents a sticker using the Present Sticker function in the Parents menu.

  – **Automatically**: Presents a sticker when watching content.

  Creating a Sticker Book

  1. If you want to create a new Sticker Book, select Create a New Sticker Book. The Create a New Sticker Book screen appears.
  2. Enter the Sticker Book's name using your remote. When done, select Next.
  3. Select a color of the Sticker Book. When done, select Next.
  4. Check the created sticker book. If you want to change a name, select Edit. If you want to change a color, select Back.
  5. When done, select Done. A new Story Book is created.

  ✎ You can create a new sticker book. Maximum number of books is 10.

  ✎ You can check arrived stickers in the Get New Stickers. A new sticker will be saved only 10 stickers which recently received.

Advanced Features

- Browse All

  Displays the kids or education-related applications list and all contents list.

  ✎ When you select an application or contents, if the application or contents were not installed to the product, the product displays the corresponding download screen in the Samsung Apps screen.

  To use the Browse All, follow these steps:

  1. On the Browse All screen, select a character you wish. The selected character screen appears.
  2. Select a contents you want play.

     Videos: Displays the video contents of the corresponding character.

     Games: Displays the game contents of the corresponding character.

     Stories: Displays the e-book contents of the corresponding character.
  3. The detailed information screen of the selected contents appears. You can play the contents, share with your Family Story, add to Playground, and give a rating.

     ✎ If you were purchased already, you can play the contents. If you are not purchased, you can download the contents in the Samsung Apps.

- Parents

  Lets you can edit the Playground, give stickers to your kids, check a usage time, and set to alarm.

  My Choice

  You can add or delete the contents in the Playground. The Playground displays the added contents only.

  To add or delete the contents in the Playground, follow these steps:

  1. On the Parents screen, select My Choice. The My Choice screen appears.
  2. Select contents you want to add or delete in the list. A pop-up message appears.
  3. Select Yes.
  4. The selected contents will be added or deleted.

  Present Sticker

  When your kids did a good job today, you can present a sticker to your kids.

  To present a sticker to your kids, follow these steps:

  1. On the Parents screen, select Present Sticker. The Present Sticker screen appears.
  2. Select a sticker you want to present. A pop-up message appears.
  3. Select Yes.
  4. Select a sticker book you want to present, and then select Present.

     ✎ If you want to check a sticker book, select Check Now. You can check the sticker in the selected sticker book.
  5. The selected sticker will be presented to your kids.

Advanced Features

History

Lets you check a usage time of the application of your kids through a graph. Also, you can check a usage time of the each contents of your kids. Change a date or content title using your remote.

Set Alarm

Lets you can set the watching time of your kids. When the time is ended, the alarm window appears.

To set the watching time, follow these steps:

1. On the Parents screen, select Set Alarm. The Set Alarm screen appears.
2. Select Timer.
3. Select time you wish. The alarm will be set.

Advanced Features

Web Browser

→ Web Browser

(May not be available, depending on your country.)

Using this function provided by the Smart Hub, you can surf the Internet on your product.

1. On the Smart Hub screen, select Web Browser. The Web Browser screen appears.
2. Surf the Internet in the same way as on a PC.

Using the colored and function buttons with the Web Browser

- B Control Panel

  Shows or hides the control panel in the top of the screen.

- C Link Browsing / Pointer Browsing

  You can change the cursor to Link Browsing mode or Pointer Browsing mode.

- D PIP

  Turns PIP on or off. With PIP on, you can watch TV while using the Web Browser.

- Tools

  Displays the Tools menu.

  Control Panel: Shows or hides the control panel in the top of the screen.

  Link Browsing / Pointer Browsing: You can change the cursor to Link Browsing mode or Pointer Browsing mode.

  PIP: Turns PIP on or off.

  Add to Bookmark: Add to current page to the Bookmarks.

  Enable Grabbing / Disable Grabbing: You can move to the direction you want a current web page. To move a web page, select a web page. Then move to direction you wish using your remote.

  ✎ Available only when cursor is set to Pointer Browsing.

- ◀◀ ▶▶ Scroll up/down

  You can scroll the page up or down.

  ✎ Available only when cursor is set to Link Browsing.

- Return

  Close the Web Browser.

Advanced Features

Using the Control Panel with Web Browser

The Web Browser has a series of icons across the top of the screen. With these icons, you can easily use the Web Browser. The icons are described below, starting with the icon on the far left of the screen.

- Back

  Moves to the previous web page.

  ✎ If there is no saved previous web page, this icon will not work.

- Forward

  Moves to the next web page if there are saved URLs.

  ✎ If there is no saved next web page, this icon will not work.

- Refresh / Stop

  Refreshes the current page or stops the current connection from loading.

- Home Page

  Goes to the URL you specified as your the home page.

- Zoom

  You can select a zoom level of 50%, 75%, 100%, 125%, 150%, 200%, 300% and Fit to screen.

- Bookmarks

  Displays the Bookmarks screen. You can set the current page as a bookmark or select a favorite page to visit from the bookmark list. You can also sort by Date, Name, or Times Visited. To sort, select the Sort. When you select Enter URL, you can enter in a new URL address directly using your remote.

  When you highlight a page, the Option appears on the right. In the Option pop-up, you can edit the selected page or delete the selected page from bookmark list.

  Using the Tools menu with Bookmarks

  - Delete All

    Delete all bookmark lists.

  - Add to Bookmark

    Sets the current page as a bookmark.

  - Import bookmarks

    You can import a bookmark file saved in the other device like a PC.

  - Export bookmarks

    You can export a bookmark file from your product to the other device connected your product.

- History

  Displays the History screen. You can select a web page to visit in the History list. You can also sort by Date, Name, or Times Visited. To sort, select the Sort. When you select Enter URL, you can enter in a new URL address directly using your remote.

  When you highlight a page, the Option appears on the right. In the Option pop-up you can delete the selected page from the history list or add the selected page to bookmark.

  ✎ If you want to delete all history list, open the Tools menu using your remote, and then select Delete All.

- **URL Field**

  Shows the URL of the current page. If you select the URL field, the URL pop-up appears. Using your remote, you can enter in a new URL directly.

- Windows List

  Displays list or images of open windows (the Windows List). You can open a new page to the list (using Open new window), select and access a page in the list, select and close a page in the list, or close all pages. When you select Enter URL, you can enter in a new URL address directly using your remote.

  Using the Tools menu with Windows List

  - Open new window

    Open the new web browser. A new web browser automatically displays the home page.

  - Close all windows

    Close the currently opened all Windows List. After closing all Windows List, product opens a new web browser automatically. A new web browser automatically displays the home page.

- Search

  Lets you search the web. When you select the Search entry field, the Search screen appears.

  To search the web by word input, follow these steps:

  1. On the Search screen, select the search engine. Also, you can select a different search engine.
  2. Select Please enter a keyword.. The keypad screen appears.
  3. Enter the word you want to search using your remote. The product searches the word by search engine.

- Share

  Share the current web page to your Family Story.

- Options

  You can configure the Web Browser settings.

Setting up the Web Browser

Move the cursor to the top of the screen, and then select the Options icon.

- Reading Tools

  Provides an easy-to-read page by enlarging the main text.

- Approved Sites

  Allows to restrict your children's access to inappropriate web pages. Therefore, this function allows access of only the registered web sites.

  ✎ Every time you access the Approved Sites, the PIN screen appears and you should enter the PIN.

  Approved Sites Feature: Turns on or off the Approved Sites.

  Reset password for Approved Sites: Change the Approved Sites password.

  Add current site: Lets you add the currently displayed web site to the Approved Sites list.

  Manage Approved Sites: Lets you key in URLs to add to the Approved Sites List and delete sites from the Approved Sites list.

  ✎ If you turn Approved Sites on and have not added any sites to the Clean site list, you will not be able to access any Internet sites.

- Private Browsing On

  Enable or disable the Privacy mode. When the Privacy mode is enabled, the browser does not retain the URLs of sites you visit. If you want to enable Private Browsing On, select Yes.

  If the Private Browsing On function is running, the "Stop" icon appears in front of the URL at the top of the screen. To disable Private Browsing On, select it again when Private Browsing On is enabled.

- PIP Settings

  Lets you configure the PIP function.

  PIP Position: Select a position for the PIP sub-picture.

  Sound: Select the audio source you will hear - Main or Sub - when PIP is on.

Advanced Features

- Web Browser Setting

  You can configure Web Browser options.

  Set as homepage: You can set the home page.

  – Most visited: Set the most frequently visited URL as the home page.

  – Current Page: Sets the current page as the home page.

  – Bookmarks: Sets the bookmarks URL as the home page.

  – Enter URL: Lets you key in the URL of the page you want for your home page. The keyboard works like a cell phone texting keyboard.

  Pop-up Block settings: Turns the Pop-up Block on or off.

  Ad Block Settings: You can determine whether to block advertisements and select the URLs for which advertisements are blocked.

  – Ad Blocker: Turns the Ad Blocker on or off.

  – Block current page: Adds the current page to the blocked list.

  – Manage blocked sites: You can add a website for which advertisements should be blocked by directly keying in the URL, or you can delete a website from the list.

  General: You can delete your personal information.

  – Delete history: Deletes the website history.

  – Delete browsing data: Deletes Internet access information such as cookies.

  – Reset Settings: Reset all web browser settings to the factory defaults.

  – Hide Menu: Turns on or off the control panel auto-hide.

  Encoding: You can set the Encoding setting for web pages to Automatic or Manual.

  – Auto select: Turns on or off the Encoding setting for web pages automatically.

  – Setting: Select the Encoding settings for web pages manually. Select an encoding format from the encoding format list.

  Pointer: You can set the speed of the cursor when the cursor is set to Pointer Mode.

  – Pointer Speed: Select a pointer speed.

  Browser Information: You can check the version information about the Web Browser.

[Legal Statement]

Due to the various capabilities of products featuring the Samsung Smart Hub - Content Service, as well as limitations in the available content, certain features, applications, and services may not be available on all devices or in all territories.

Some features on Smart Hub may also require additional peripheral devices or membership fees that are sold separately. Please visit http://www.samsung. com for more information on specific device information and content availability. The services and availability of content through Smart Hub are subject to change from time to time without prior notice.

AllShare Play

→ AllShare Play

Enjoy photos, music and/or movie files saved on a USB Mass Storage Class (MSC) device and/or your PC.

✎ To view content on a USB device, you should plug the device into a USB port on the product.

✎ If you want to use a USB HDD, we recommend to use a USB HDD that has a power adapter.

✎ To play content located on your PC or on a DLNA compatible cell phone, you must connect your PC and the TV to your network and download and then install the AllShare network software on your PC. In addition, to play content located on a DLNA compatible device, you must have a wireless network.

Connecting a USB Device

1. Turn on your product.
2. Connect a USB device containing photo, music and/or movie files to the USB port on the product.
3. When a USB device is connected to the product, the New device connected. window appears. Select a category you want to play among Videos, Photos and Music.

✎ The product may display the files on the USB device automatically if it is the only device connected.

Read this information before using AllShare Play with a USB device.

Restriction and Caution

- Before connecting your device to the product, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.
- Connect a USB HDD to the dedicated USB (HDD 5V 1.0A) port.
- Do not disconnect the USB device while it is loading.
- If you connect a USB device with a USB extension cable, the product may not recognize the USB device or read the files on the device.
- If a USB device you connect to the product is not recognized, the files on the device are corrupted, or a file in the list is not played, connect the USB device to a PC, format the device and check the connection.
- If a file you deleted from the PC is still found when you run Smart Hub, use the “Empty the Recycle Bin” function on the PC to permanently delete the file.
- If the database of the saved file list cannot be constructed because there is no free space on the USB device, you may not be able to view a new file even if you have added the file to the USB device.

Advanced Features

Supported Devices

- Certain types of USB Digital camera and audio devices may not be compatible with this product.
- AllShare Play supports only USB Mass Storage Class (MSC) devices. MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives, Flash Card Readers and USB HDD (USB HUB are not supported). Devices should be connected directly to the product's USB port.
- More than 3TB USB HDD is not supported.
- If more than 2 PTP devices are connected, you can only use one at a time.
- If more than two MSC devices are connected, some of them may not be recognized. A USB device that requires high power (more than 500mA or 5V) may not be supported.
- If the product has no input during the time set in Auto Protection Time, the Screensaver will run.
- The power-saving mode of some external hard disk drives may be released automatically when you connect them to the product.

File system and formats

- The USB function might not work properly with unlicensed multimedia files.
- MTP (Media Transfer Protocol) is not supported.
- The file system supports FAT16, FAT32 and NTFS.
- AllShare Play supports only the Sequential jpeg format. It does not support the Progressive jpeg format.
- The higher the resolution of the image, the longer it takes to display on the screen.
- The maximum supported JPEG resolution is 15360 X 8640 pixels.
- If a file is corrupted or the product does not support the file type, the Not Supported File Format. message appears.
- If the files are sorted by Folder view, the product can display the names of up to 1000 files in each folder.
- If the number of files and folders saved on a USB storage device is approximately over 8000, the files and folders may not appear and some folders may not be opened.
- The product cannot play MP3 files with DRM that have been downloaded from a for pay site. Digital Rights Management (DRM) is a technology that supports the creation, distribution, and management of digital content in an integrated and comprehensive way, including protecting the rights and interests of content providers, preventing illegal copying of contents, and managing billings and settlements.
- Even if the file to be played is encoded by a supported format, an error message may appear due to a sub container or profile problem.

Advanced Features

Connecting to a PC through a network

You can play pictures, music, and videos saved in your PC through a network connection in the AllShare Play mode.

✎ For more information on how to configure your product and connect it to your network, refer to “Setting up the Wired or Wireless Network” in this manual.

✎ To view content located on your PC, you must have connected your product and your PC to your LAN and downloaded and installed AllShare PC Software on your PC.

✎ We recommend you locate both your product and PC in the same network subnet. IP addresses have four parts, separated by periods (111.222.333.444). If your product and PC are in the same subnet, the first 3 parts of the product IP address and the PC IP address (111.222.333) will be the same and only the last part (the host address) will be different.

The following AllShare Play functions are not supported when you are playing media from a PC connected through a network:

✎ The Background Music and Background Music Setting functions.

✎ Sorting files by preference in the Photos, Music, and Videos folders.

– The ◀◀ or ▶▶ function while a movie is playing.

✎ DivX DRM are not supported.

✎ Set your PC firewall program so that AllShare PC Software is a permitted program.

✎ Depending on the Internet server, when you use AllShare Play through a network connection:

– The sorting method may vary.

– The Scene Search function may not be supported.

– The Resume function, which resumes playing of a video, may not be supported.

– The Resume function does not support multiple users. (It memorizes only the point where the most recent user stopped playing a video.)

– The search function may not work depending on the content information.

✎ You may experience file stuttering while playing a video in AllShare Play through a network connection.

My List (In AllShare Play)

→ AllShare Play → My List

Using this function, you can access the content easily and quickly.

- Recently Played

  Displays the videos, photos or music file list of recently played. If you have a file you want to play again, use this category.

  ✎ When you play a file from the Recently Played list, and the USB device is not connected or the file is not found, the "Cannot find the file you're looking for." message appears.

  ✎ Up to 48 files are listed in descending order of playing time on the basis of the time configured on the product so that the last played file comes first.

  ✎ When you try to play a file on a mobile phone, the file may not be played.

- What's New

  Displays the newly updated videos, photos or music file saved on the USB device or your PC. If you have a newly updated file you want to play, use this category.

- Playlist

  Displays the Playlist files saved on the USB device or your PC. If you want to play a playlist, select the playlist. The selected playlist will play immediately.

  ✎ You can create up to 12 playlists.

  ✎ You can add up to 100 files to a single playlist.

  ✎ You can only add one type of content to a single playlist. For example, you can only add music files to a playlist that includes music files.

  Creating the Playlist

  1. Select the desired file in the Videos, Photos, or Music file list.
  2. Open the Tools menu using your remote, and then select Add to Playlist.
  3. Select a file you want to add. The ✓ mark appears in the check box.
  4. Repeat Step 3 to select additional files.

     ✎ To select all the files in the list, select Select All. To cancel a selection, select the file again.
  5. When done, select Add. The Add to Playlist screen appears.
  6. Select Create New. The Create a new playlist screen appears.
  7. Enter playlist name using your remote.
  8. When done, Select Done. The newly playlist is created.

To add files to playlist, follow these steps:

1. Follow Steps 1 through 4 in the “Creating the Playlist” procedure.
2. Select a playlist to add files. The files will be added to playlist you selected.

To delete one or more files in the Playlist, follow these steps:

1. Select a playlist you want to edit.
2. Open the Tools menu using your remote, and then select Edit Playlist. The Edit Playlist screen appears.
3. Select a file you want to delete. The ✓ mark appears in the check box.
4. Repeat Step 3 to select additional files.

   ✎ To select all the files in the list, select Select All. To cancel a selection, select the file again.
5. When done, select Remove. A pop-up message appears.
6. Select Yes. The selected file(s) be removed in the Playlist.

Videos (In AllShare Play)

→ AllShare Play → Videos

You can play video files saved on USB device and/or your PC.

✎ For more information about the subtitle formats and codec formats, refer to "Supported Subtitle and AllShare Play file formats" in the Other Information section. (page 146)

Playing a Video

1. On the AllShare Play screen, Select Videos.
2. Select the device you want to play.
3. Select the desired video in the file list.

✎ If you stop the playing, you can play the video later from the point where you stopped it.

✎ The file name appears on the top with its playing time.

✎ If video time information is unknown, the playing time and progress bar are not displayed.

Playback control button with Videos

- ◀◀ / ▶▶

  Each time you select ◀◀ or ▶▶ using your remote, the playback speed change as follows. (◀◀ 1 / ◀◀ 2 / ◀◀ 3 / ▶▶ 1 / ▶▶ 2 / ▶▶ 3)

- ◀, ▶

  Jump to backward or forward from current position.

- ❚❚

  Pause the scene.

  – In pause mode, select ▶▶. Each time you select ▶▶ using your remote, the playback speed is reduced to ▶ 1/8 / ▶1/4 / ▶1/2.

  – In pause mode, select ❚❚. Each time you select ❚❚ using your remote, a new frame will be appear.

  ✎ To return to normal speed playback, select ▶ using your remote.

  ✎ The product does not play sound in stop mode.

  ✎ Stop motion operates only in the forward direction.

Using the Tools menu with Videos

- On the file list screen, you can use the following these options:
  - View

    You can sort the file list by selecting a sort criteria you want.
  - Selection Play

    You can play by selecting the desired music file in the file list.
  - Send

    Lets you send your video files with your Family Story or other devices.

    ✎ If you want to use this function, you should log in the Smart Hub.
  - Login / Logout

    You can login or logout your Smart Hub account.
  - Add to Playlist

    Lets you make your own playlist. When you use the playlist, you can play music you want to listen easily and quickly.
  - Go to playlist

    Moves to Playlist screen.
  - Information

    Displays detailed information about the selected file.
- During playback, you can use the following these options:
  - Go to Videos List

    Moves to the file list screen.
  - Play from the Beginning

    You can restart a video file from the beginning.
  - Scene Search

    You can use the Scene Search function during playback to view or start a movie from the scene of your choice.

    ✎ If the index information is damaged or unsupported, you will not be able to use the Scene Search function.
  - Title Search

    You can move directly to another title.
  - Time Search

    Search the video or input the play time directly using your remote.
  - Repeat Mode

    You can play movie files repeatedly.
  - Picture Size

    You can adjust the picture size to your preference.

– Picture Mode

  You can change the Picture Mode.

– Sound Mode

  You can change the Sound Mode.

– Audio Language

  You can enjoy video in one of supported languages. The function is enabled only when you play stream-type files which support multiple audio formats.

– Subtitle

  You can view a subtitle. You can select a specific language if the subtitle file contains multiple languages.

– Subtitle Settings

  Displays the Subtitle Settings. You can set up a subtitle option.

– Information

  Displays detailed information about the selected file.

Viewing the file lists

✎ When you use the AllShare Play function with Family Story, Facebook or Picasa rather than a USB device, View is not supported.

1. To sort files in the file lists, select D using your remote. The View screen appears.
2. Select a sort criteria you want.

- Folder view

  Displays the whole folder. You can view the file name and thumbnail by selecting the folder.

- Title

  Sorts and displays the file title in Symbol / Number / Alphabet / Special order.

- Latest Date

  Sorts and shows files by the latest date.

- Earliest Date

  Sorts and shows files by the earliest date.

Advanced Features

Send your video files

Lets you send your video files with your Family Story or other devices.

✎ If you want to use this function, you should log in the Smart Hub.

1. For example, suppose that you want to send with your Family Story.
2. To send video files in the file list, open the Tools menu using your remote, and then select Send.
3. Select a video file you want to send. The ✓ mark appears in the check box.
4. Repeat Step 3 to select additional tracks.

   ✎ To select all the files in the list, select Select All. To cancel a selection, select the file again.
5. When done, select Send. The Send screen appears.
6. Choose the destination device to send.
7. Choose the family group to share. A pop-up window appears.
8. Enter a message to send to family group you selected.

   ✎ In the QWERTY keypad screen, you can use the keyboard connected to the product.
9. When done, select Send.

Photos (In AllShare Play)

→ AllShare Play → Photos

Viewing a photo (or slide show)

✎ For more information about the subtitle formats and codec formats, refer to "Supported Subtitle and AllShare Play file formats" in the Other Information section. (page 146)

1. On the AllShare Play screen, select Photos.
2. Select the device you want to play.
3. Select the desired photo file in the file list. The product displays the selected photo file.
4. To start the slide show, select ► using your remote.

   ✎ To change a photo manually, press the ◄ or ► button.

   ✎ During the slide show, all files in the file list are displayed in order, starting from the file you selected.

   ✎ When watching a photo file or slide show, you can add background music if you have music files on same device.

   ✎ The background music cannot be changed until the BGM has finished loading.

Playback control button with Photos

- ◄◄ / ►►

  The slide show speed change as follow (Slow, Normal, Fast).

- ◄, ►

  Change a previous or next photo.

- ■

  Return to the file list screen.

- ►

  Start the slide show.

- ❚❚

  Pause the slide show.

Using the Tools menu with Photos

- On the file list screen, you can use the following these options:
  - View

    You can sort the file list by selecting a sort criteria you want.
  - Selection Play

    You can play by selecting the desired music file in the file list.
  - Send

    Lets you send your photos with your Family Story or photo-related application.

    ✎ If you want to use this function, you should log in the Smart Hub.
  - Login / Logout

    You can login or logout your Smart Hub account.
  - Add to Playlist

    Lets you make your own playlist. When you use the playlist, you can play music you want to listen easily and quickly.
  - Go to playlist

    Moves to Playlist screen.
  - Information

    Displays detailed information about the selected file.

Advanced Features

- When playing a photo file, you can use the following these options:
  - Go to Photos List

    Moves to the file list screen.
  - Start Slide Show / Stop Slide Show

    You can start or stop a slide show. Alternatively, select ► or II using your remote.
  - Slide Show Speed

    You can select the slide show speed during the slide show. Alternatively, select ◄◄ or ►► using your remote.
  - Background Music On / Background Music Off

    You can start or stop background music.
  - Background Music Setting

    You can set and select background music when watching a photo file or slide show.
  - Picture Mode

    You can change the Picture Mode.
  - Sound Mode

    You can change the Sound Mode.

    ✎ Available only when the background music is set to on.
  - Zoom

    You can zoom into images in full screen mode.
  - Rotate

    you can rotate images.
  - Information

    Displays detailed information about the selected file.

Advanced Features

Viewing the file lists

✎ When you use the AllShare Play function with Family Story, Facebook or Picasa rather than a USB device, View is not supported.

1. To sort files in the file lists, select D using your remote. The View screen appears.
2. Select a sort criteria you want.

- Folder view

  Displays the whole folder. You can view the file name and thumbnail by selecting the folder.

- Title

  Sorts and displays the file title in Symbol / Number / Alphabet / Special order.

- Latest Date

  Sorts and shows files by the latest date.

- Earliest Date

  Sorts and shows files by the earliest date.

- Monthly

  Sorts and shows photo files by month.

Send your photos

Lets you send your photos with your Family Story or other devices.

✎ If you want to use this function, you should log in the Smart Hub.

1. For example, suppose that you want to send with your Family Story.
2. To send photo files in the file list, open the Tools menu using your remote, and then select Send.
3. Select a photo file you want to send. The ✓ mark appears in the check box.
4. Repeat Step 3 to select additional tracks.

   ✎ To select all the files in the list, select Select All. To cancel a selection, select the file again.
5. When done, select Send. The Send screen appears.
6. Choose the destination device to send.
7. Choose the family group to share. A pop-up window appears.
8. Enter a message to send to family group you selected.

   ✎ In the QWERTY keypad screen, you can use the keyboard connected to the product.
9. When done, select Send.

Music (In AllShare Play)

→ AllShare Play → Music

Playing Music

✎ For more information about the subtitle formats and codec formats, refer to "Supported Subtitle and AllShare Play file formats" in the Other Information section. (page 146)

1. On the AllShare Play screen, select Music.
2. Select the device you want to play.
3. Select the desired music file in the file list or select ► using your remote.

   ✎ To move a previous page, select B using your remote. To move a next page, select C using your remote.

   ✎ When the music is playing, you can search the music file by selecting ◄◄ or ►► using your remote.

✎ If the sound is abnormal when you play MP3 files, adjust the Equalizer in the Sound menu. (An over-modulated MP3 file may cause a sound problem.)

Playback control button with Music

During playback, you can use additional functions at the bottom right of the screen.

- Play / Pause

  You can start or pause a music file. Alternatively, you can select ► or II using your remote.

- Repeat Mode

  You can play movie files repeatedly.

- Shuffle Mode

  You can play the music sequentially or randomly.

- Sound Mode

  You can change the Sound Mode.

Using the Tools menu with Music

- You can use the following these options:
  - View

    You can sort the file list by selecting a sort criteria you want.
  - Selection Play

    You can play by selecting the desired music file in the file list.
  - Go to playlist

    Moves to Playlist screen.
  - Information

    Displays detailed information about the selected file.

Playing selected music files using Music

1. Select the desired music file in the file list.
2. Open the Tools menu using your remote, and then select Selection Play.
3. Select the tracks you want to add. The ✓ mark appears in the check box.
4. Repeat Step 3 to select additional tracks.

   ✎ To select all the files in the list, select Select All. To cancel a selection, select the file again.
5. When done, select Play. The selected music files will play.

Viewing the file lists

✎ When you use the AllShare Play function with Family Story, Facebook or Picasa rather than a USB device, View is not supported.

1. To sort files in the file lists, select D using your remote. The View screen appears.
2. Select a sort criteria you want.

- Folder view

  Displays the whole folder. You can view the file name and thumbnail by selecting the folder.
- Title

  Sorts and displays the file title in Symbol / Number / Alphabet / Special order.
- Artist

  Sorts the music file by artist in alphabetical order.
- Album

  Sorts the music file by album in alphabetical order.
- Genre

  Sorts music files by the genre.

Using the DLNA Function

→ AllShare Play

You can play media contents including videos, photos, and music saved on your mobile phones or the other devices (such as your PC) by controlling them on the product via the network.

For more information, visit “www.samsung.com” or contact the Samsung call center. Mobile devices may need additional software installation. For details, refer to each device’s user’s guide.

✎ If your Samsung product connects to a non-Samsung DLNA server, a compatibility issue may occur during video playback.

✎ By connecting your Samsung product to a network via AllShare Play, you can use Samsung’s original functions as follows:

- Playback of various video formats (DivX, MP4, 3GPP, AVI, ASF, MKV, etc.)
- Video thumbnail feature
- Bookmark function (to resume video playback)
- Auto-chaptering (scene navigation)
- Digital content management
- Compatibility with various subtitle formats (SRT, SMI, SUB, TXT, TTXT)
- Search with file names
- And many others

✎ To use the original DLNA functions of Samsung fully, it is recommended that you use the AllShare™ software provided with your product.

AllShare Settings

Menu → Network → AllShare Settings

Shows a list of mobile phones or connected devices which have been set up to use AllShare Settings with this product.

✎ The AllShare Settings function is available in all devices which support DLNA DMC.

- Allowed / Denied: Allows/Blocks the devices.
- Delete: Deletes the devices from the list.

  ✎ This function only deletes the name of the device from the list. If the deleted device is turned on or tries to connect to the product, it may appear on the list again.

To play the media contents of the devices connected to DLNA function, follow these steps:

1. On the AllShare Play screen, select desired menu (Videos, Photos, Music).
2. Select DLNA. The product displays the file list of the connected device using the DLNA function.
3. Select the desired file in the file list. The selected file will play.

Advanced Features

Playing the media contents saved on the devices

1. Connect the mobile phone or other devices which support AllShare Play function, and then play the media contents of each device. The popup screen appears on the bottom of your product.
2. Select the Allow to accept the connected devices. The media contents of the devices can be playing on your product.

    ✎ You can find the allowed devices on the AllShare Settings.

✎ An alarm window appears informing you that media contents (videos, photos, music) sent from a mobile phone will be displayed on your product. The contents are played automatically 3 seconds after the alarm window appears.

- If you close the alarm window using your remote when the alarm window appears, the media contents are not played.

✎ The first time a device accesses your product through the media function, a warning pop up window appears. Select Allow. This permits the phone to access the product freely and use the Media function to play content.

✎ To turn off media contents transmissions from a mobile phone, set a device to Denied in the AllShare Settings.

✎ Contents may not play on your product depending on their resolution and format.

✎ The some buttons may not work depending on the type of media content.

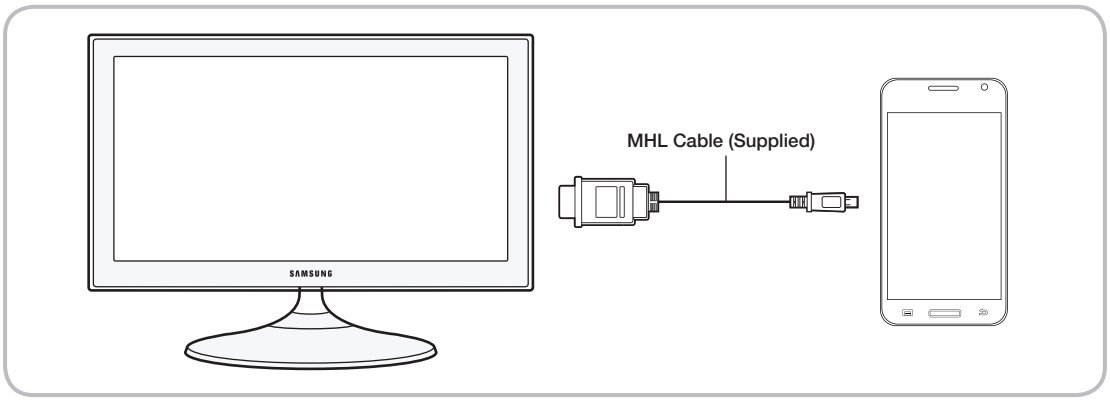
✎ Using the mobile device, you can control the media play. For details, refer to each mobile's user's guide.

Advanced Features

Using the MHL function

You can enjoy videos, photos and music files on your product when connecting it with a mobile device that supports Mobile High-Definition Link (MHL) function.

✎ To use the MHL function, you need an MHL-certified mobile device. You can check if your mobile device is MHL certified on the device manufacturer's website. To find a list of MHL-certified devices, visit the official MHL website (http://www.mhlconsortium.org).



To use the MHL function, follow these steps:

1. With an MHL cable, connect the USB port of the mobile device and the **HDMI IN 2 (MHL /ARC)** port of the product.

   ✎ You can also connect the HDTV adapter.

2. Select Source using your remote. The Source screen appears.
3. Select HDMI2.

✎ To use the MHL function, you must upgrade the software to the latest version.

✎ When you use a MHL cable, only the **HDMI IN 2 (MHL /ARC)** port of the product supports the MHL function.

✎ This product is officially MHL-certified. If you encounter any problem when using the MHL function, please contact the manufacturer of the mobile device.

✎ Some mobile devices (products) may not support the function depending on the performance or the function of the device.

✎ Since the product screen is wider than the mobile device screen, the visual quality may seem degraded.

✎ When you use a MHL cable, you can charge the connected mobile device even if the product is in standby state.

✎ The product remote control supports the following buttons:

▲ / ▼ / ◀ / ▶ (Menu navigation)

◀◀ (REW), ▶▶ (FF), ↵ (select)

▶ (play), ❚❚ (pause), ■ (stop)

↩ (Move to previous menu)

✎ For detailed troubleshooting information about MHL function, refer to the "Troubleshooting" chapter (Other Information → Troubleshooting → MHL Connection) in this manual (page 143).

Anynet+ (HDMI-CEC)

Menu → System → Anynet+ (HDMI-CEC)

Anynet+ is a function that enables you to control all connected Samsung devices that support Anynet+ with your Samsung product's remote. The Anynet+ system can be used only with Samsung devices that have the Anynet+ feature. To be sure your Samsung device has this feature, check if there is an Anynet+ logo on it.

✎ You can only control Anynet+ devices using the product's remote control, not the buttons on the product.

✎ The product remote control may not work under certain conditions. If this occurs, reselect the Anynet+ device.

✎ The Anynet+ functions do not operate with other manufacturers' products.

✎ For instructions explaining how to connect Anynet+ external devices, refer to the device's user manual. You must connect an Anynet+ device using an HDMI cable. Some HDMI cables may not support Anynet+ functions.

✎ Anynet+ works when the AV device supporting Anynet+ is in the standby or on status.

✎ Anynet+ supports up to 12 AV devices in total. Note that you can connect up to 3 devices of the same type.

✎ However, you can connect only one Anynet+ Home Theater. To connect an Anynet+ Home Theater, connect the Home Theater to the product using an HDMI cable then:

- To hear sound from the Home Theater's front, left and right speakers and the subwoofer only, connect a digital optical cable between the **DIGITAL AUDIO OUT (OPTICAL)** port on your product and the Digital Audio Input on the Home Theater.
- To hear 5.1 channel audio, connect HDMI cables to your Anynet+ DVD player, satellite box, etc. Then, connect the DIGITAL AUDIO OUT (OPTICAL) port on your DVD player, Satellite Box, etc. (i.e. Anynet + Device 1 or 2) directly to the Home Theater, not the TV.

Anynet+ (HDMI-CEC) Menu

The Anynet+ menu changes depending on the type and status of the Anynet+ devices connected to the product.

- View TV

  Changes Anynet+ mode to TV broadcast mode.

- Device List

  Shows the Anynet+ device list.

- (device_name) Menu

  Shows the menu of the connected device menus. E.g. if a DVD player is connected, the disc menu of the DVD player will appear.

- (device_name) Tools

  Shows the tools menu of the connected device. E.g. if a DVD player is connected, the tools menu of the DVD player will appear.

  ✎ Depending on the device, this menu may not be available.

- (device_name) Title Menu

  Shows the title menu of the disc in the connected device. E.g. If a DVD player is connected, the title menu of the movie in the DVD player will appear.

  ✎ Depending on the device, this menu may not be available.

- Receiver

  Sound is played through the receiver.

Advanced Features

Setting up Anynet+ (HDMI-CEC)

- Anynet+ (HDMI-CEC)

  To use the Anynet+ Function, Anynet+ (HDMI-CEC) must be set to On.

  ✎ When the Anynet+ (HDMI-CEC) function is disabled, all the Anynet+ related operations are deactivated

- Auto Turn Off

  Set an Anynet+ Device to turn off automatically when the TV is turned off.

  ✎ If the Auto Turn Off is set to Yes, running external devices will turn off at the same time as the TV powers off.

  ✎ May not be enabled depending on the device.

- Receiver

  You can listen to sound through a receiver (i.e. Home Theater) instead of the product Speaker.

Switching between Anynet+ Devices

1. Open the Tools menu using your remote, and then select Anynet+ (HDMI-CEC).
2. Select Device List. The Device List screen appears.

   ✎ If you cannot find a device you want, select Refresh to refresh the list.
3. Select a device, and then wait until switch to the selected device.

   ✎ The Device List menu appears only when you set Anynet+ (HDMI-CEC) to On in the System menu.

   ✎ Switching to the selected device may take up to 2 minutes. You cannot cancel the switching operation while switching is in progress.

   ✎ If you have selected an Anynet+ device using Source function and then selecting its input source, you cannot use the Anynet+ function. Make sure to switch to an Anynet+ device by using the Device List.

Listening through a Receiver

You can listen to sound through a receiver (i.e. Home Theater) instead of the product Speaker. To listen to sound through a receiver, go to Receiver screen (System → Anynet+ (HDMI-CEC) → Receiver). Then select Receiver and set to On.

✎ If your receiver supports audio only, it may not appear in the device list.

✎ The receiver will work when you have properly connected the optical in jack of the receiver to the **DIGITAL AUDIO OUT (OPTICAL)** port of the product.

✎ When the receiver (i.e. Home Theater) is set to On, you can hear sound output from the product's Optical jack. When the product is displaying a DTV (air) signal, the product will send out 5.1 channel sound to the receiver. When the source is a digital component such as a DVD player and it is connected to the product via HDMI, you will hear only 2 channel sound from the receiver.

Advanced Features

Using the ARC function

You can listen to sound through a receiver connected using an HDMI cable without connecting a separate optical cable. To listen to sound through a receiver using the ARC function, go to Receiver screen (System → Anynet+ (HDMI-CEC) → Receiver). Then select Receiver and set to On.

✎ To use the ARC function, a receiver which supports the HDMI-CEC and ARC features must be connected to the **HDMI IN 2 (MHL / ARC)** port.

✎ To disable the ARC function, set the Receiver to Off. Even if the product transmits the ARC signal continuously, the receiver will be blocked from receiving the signal.

Other Information

Troubleshooting

If the product seems to have a problem, first review this list of possible problems and solution. If none of the troubleshooting tips apply, visit www.samsung.com/support or call Samsung customer Service at 1-800-SAMSUNG (1-800-726-7864).

Issues	Solutions and Explanations
Flickering and Dimming	If your Samsung Television is flickering or dimming sporadically, you may need to disable some of its energy efficient features such as the Energy Saving feature. Follow the steps below with your remote to turn these features off or on. • Energy Saving: Menu → System → Eco Solution → Energy Saving
Component Connections / Screen Color	If you find that the color on your Samsung television's screen is not correct or black and white, first run a Self Diagnosis on the product to make sure there are no device issues. • Self Diagnosis: Menu → Support → Self Diagnosis → Picture Test If the problem does not appear in the Picture test, make sure: • Your connections are all consistent. For example, if you've used the AV In jack on your product, make sure you have used the AV Out jack on your video source. • You have connected to your devices to the correct jacks. For example, if you use the Component jacks, labeled Pb, Pr, and Y, to connect your product and video source, make sure you have connected the blue Pb jack on the video source to the blue Pb jack on the product, the red Pr jack on the source to the red Pr jack on the product.
Screen Brightness	If you find that the colors on your Samsung product are correct but just a little too dark or bright, try adjusting the following settings in the Picture option in the Main menu: • Backlight, Contrast, Brightness, Sharpness, Color, Tint (G/R) and so on. Go in to "Picture" on user Menu then try adjusting options mentioned above.
Unwanted Powering Off	If your Samsung product appears to turn off by itself, there may be an issue with either your Timer settings or your Eco friendly No Signal Power Off feature. First make sure Sleep Timer is not accidentally set. The Sleep Timer turns off the product automatically after a certain period of time has passed. • Sleep Timer: Menu → System → Time → Sleep Timer If the Sleep Timer is not activated, you may have engaged the No Signal Power Off or Auto Power Off feature. • No Signal Power Off: Menu → System → Eco Solution → No Signal Power Off • Auto Power Off: Menu → System → Eco Solution → Auto Power Off

Other Information

Issues	Solutions and Explanations
Trouble Powering On	**Before you turn the product on, find the red light on the right or left bottom of your product. Press the power on button on the product or remote and the light should blink about 5 times before the product turns on.** If you find that you are having trouble powering on your Samsung television, there are a number of things to check before making a call to the service department. • If you happen to be using the product as a monitor and the stand-by light only blinks for a few seconds when you press the power button, your PC is in sleep mode. To take your PC out of sleep mode, press a key on your keyboard or move the mouse. Then try turning your product on. If you're sure your power cord, remote control, and PC are functioning properly, you may be having a cable issue. If you have a cable or satellite box, your product may appear to be off because the cable or satellite box is not outputting a signal. To test the signal output of your cable or satellite box, press the guide or info button on the cable or satellite box remote control. If the screen displays the guide or info data, the problem is caused by the box.
Cannot Find a Channel	Re-run Setup (Go to Menu → System → Setup) or run Auto Program. (Go to Menu → Channel → Auto Program).

✎ For detailed troubleshooting information, watch the troubleshooting videos at www.samsung.com/spsn.

Other Information

Issues	Solutions and Explanations
PC Connection	
A Mode Not Supported message appears.	Set your PC's output resolution so it matches a resolution supported by the product.
"PC" is always shown on the source list, even if a PC is not connected.	This is normal. "PC" is always shown in the source list, regardless of whether a PC is connected.
The video is OK but there is no audio.	If you are using an HDMI connection, check the audio output setting on your PC.
Picture	First, perform the Picture Test and to see if your product is properly displaying the test image (go to Menu → Support → Self Diagnosis → Picture Test). If the test image is properly displayed, the poor picture may be caused by the source or signal.
The product image does not look as good as it did in the store.	Store displays are all tuned to digital, HD (high definition) channels. If you have an analog cable/set top box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality. ✎ Many HD channels are up scaled from SD (Standard Definition) contents. Look for a channel that is broadcasting true HD content. • Cable/Satellite subscribers: Try HD channels from the channel line up. • Air/Cable Antenna connection: Try HD channels after performing an Auto Program. Adjust the Cable/Sat box video output resolution to 1080i or 720p.
The picture is distorted: macro block error, small block, dots, pixelization	The compression of video contents may cause picture distortion especially in fast moving pictures such as sports and action movies. A weak or bad quality signal can cause picture distortion. This is not a product issue. Mobile phones used close to the product (within 3.3 ft) may cause noise in the picture on analog and digital channels.
Color is wrong or missing.	If you're using a Component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen.
The color is poor or the picture is not bright enough.	Adjust the Picture options in the product menu (go to Picture Mode / Color / Brightness / Sharpness) Adjust the Energy Saving option in the product menu (go to Menu → System → Eco Solution → Energy Saving) Try resetting the picture to view the default picture settings (go to Menu → Picture → Reset Picture).

Other Information

Issues	Solutions and Explanations
There is a dotted line on the edge of the screen.	If the Picture Size is set to Screen Fit, change it to 16:9. Change the cable/satellite box resolution.
The picture is black and white.	If you are using an AV composite input, connect the video cable (yellow) to the Green jack of Component on the product
When changing channels, the picture freezes or is distorted or delayed.	If the product is connected to a cable box, try to reset the box. (Disconnect and then reconnect the AC cord and wait until the cable box reboots. It may take up to 20 minutes.) Set the output resolution of the cable box to 1080i or 720p.
Sound	First, perform the Sound Test to determine if your product audio is operating properly. (Go to Menu → Support → Self Diagnosis → Sound Test). If the audio is OK, the sound problem may caused by the source or signal.
There is no sound or the sound is too low at maximum volume.	Please check the volume of the device (Cable/Sat Box, DVD, Blu-ray etc.) connected to your product.
The picture is good but there is no sound.	Set the Speaker Select option to TV Speaker in the Sound menu. If you are using an external device, check the device's audio output option. (Ex. You may need to change your cable box's audio option to HDMI if you have the box connected to your product using an HDMI cable.) If you are using a DVI to HDMI cable, a separate audio cable is required. If your product has a headphone jack, make sure there is nothing plugged into it. Reboot the connected device by disconnecting, and then reconnecting device's power cable.
The speakers are making an inappropriate noise.	Check cable connections. Make sure a video cable is not connected to an audio input. For antenna or cable connections, check the signal information. A low signal level may cause sound distortion. Perform the Sound Test feature. (Menu → Support → Self Diagnosis → Sound Test)
RF (Cable / Antenna) Connection	
The TV is not receiving all channels.	Make sure the coaxial cable is connected securely. Run Auto Program to add available channels to the channel list. Go to Channel → Auto Program then select Cable and make sure to select the correct Cable TV signal type. There are 3 options, STD, HRC and IRC. Most cable systems use STD. Verify the antenna is positioned correctly.
No caption on digital channels.	Check the Caption Setup menu. Try changing Caption Mode Service1 to CC1. Some channels may not have caption data.
The picture is distorted: macro block error, small block, dots, pixelization.	The compression of video contents may cause picture distortion, especially with fast moving pictures such as sports and action movies. A weak signal can cause picture distortion. This is not a product problem.

Other Information

Issues	Solutions and Explanations
Network Connection	
The wireless network connection failed.	Make sure the product is connected to a wireless IP sharer (router).
Software Update over the network fails.	Run Network Status in Network menu to confirm the connection. If you have latest Software (SW) version, SW upgrade will not proceed.
Others	
Purple/green rolling horizontal bars and buzzing noise from the product speakers with a Component cable connection.	Remove the left and right audio connections from the Set-Top box. If the buzzing stops, this indicates that the Set-Top box has a grounding issue. Replace the Component video cables with an HDMI connection.
The picture won't display in full screen.	HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents. Black bars will appear on the top and bottom of the screen when you watch movies that have aspect ratios different from your product. Adjust the picture size options on your external device or the product to full screen.
A Mode Not Supported message appears.	Check the supported resolution of the product, and adjust the external device's output resolution accordingly. Refer to the resolution settings of this manual.
Caption on product menu is grayed out.	You cannot select the Caption menu if you have selected a source connected to the product via HDMI or Component. The external device's Caption function must also be activated.
There is a plastic smell from the product.	This smell is normal and will dissipate over time.
The product Signal Information is unavailable in the Self Diagnosis menu.	This function is only available for digital channels the TV receives from an Antenna / RF /Coax connection.
The product is tilted to the side.	Remove the base stand from the product and reassemble it.
The channel menu is grayed out (unavailable).	The Channel menu is only available when you select the product source.
Your settings are lost after 30 minutes or every time the product is turned off.	If the product is in the Store Demo mode, it will reset audio and picture settings every 30 minutes. Change the settings from Store Demo mode to Home Use mode using the Setup procedure. Select TV in the Source using your remote, and go to Menu → System → Setup.
You have intermittent loss of audio or video.	Check the cable connections and reconnect them. Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If mounting the product to a wall, we recommend using cables with 90 degree connectors.
You see small particles when you look closely at the edge of the frame of the product.	This is part of the product's design and is not a defect.

Other Information

Issues	Solutions and Explanations
The PIP menu is not available.	PIP functionality is only available when you are using an HDMI, or Component source.
POP (product's internal banner ad) appears on the screen.	Select Home Use under Setup mode. For details, refer to the Setup Feature. ✎ Watch these troubleshooting on video at www.samsung.com/spsn. ✎ Some functions and pictures shown in this manual are available on specific models only. ✎ To keep your product in optimum condition, upgrade to the latest firmware on the Samsung web site by USB (samsung.com → Support → Downloads).
The product won't turn on.	Make sure the AC power cord is securely plugged in to the wall outlet and the product. Make sure the wall outlet is working. Try pressing the ⏻ button on the product to make sure the problem is not the remote. If the product turns on, refer to "Remote control does not work" below.
There is no picture/video.	Check the cable connections. Remove and reconnect all cables connected to the product and external devices. Set the video outputs of your external devices (Cable/Sat Box, DVD, Blu-ray etc) to match the product's input connections. For example, if an external device's output is HDMI, it should be connected to an HDMI input on the product. Make sure your connected devices are powered on. Be sure to select the correct input source Reboot the connected device by unplugging it, and then reconnecting the device's power cable.
The remote control does not work.	Replace the remote control batteries. Make sure the batteries are installed with their poles (+/–) in the correct direction. Clean the sensor's transmission window on the remote. Try pointing the remote directly at the product from 5~6 feet away.
The cable/set top box remote control doesn't turn the product on or off, or adjust the volume.	Program the Cable/Set remote control to operate the product. Refer to the Cable/Set-Top-Box user manual for the SAMSUNG TV code.

Other Information

Issues	Solutions and Explanations
Intel® WiDi Connection	
Unable to establish a WiDi connection.	It is recommended using the laptop within a 3m radius of the product. You may encounter a connection failure or scrambled screen in a multiple router environment such as an office. Since WiDi is used to handle real-time streaming, you may encounter a scrambled signal in the case of electric interference. Check if there may be electric interference around the product and relocate the product as far as possible from such a location i.e. a transmission tower, microwave oven or other electromagnetic generating environment.)
WiDi is not displayed in the Source list after initial power on.	It takes about 20 seconds to authorize the wireless connection of the external/internal WiFi module. Please wait a moment. If the problem persists, this is caused by a defective wireless module or the incorrect wiring of the cables between the modules.
A scrambled screen occurs at regular intervals.	The product may be affected by the surrounding radio signals. Do not place objects that can cause electric interference between the product and the PC/laptop computer. – If the product is too close to the laptop computer, the WiDi performance may be deteriorated. It is recommended maintaining the recommended distance between them. – A microwave oven and vacuum cleaner can cause electric interference with a WiDi signal. Therefore, stop operating these devices when using the WiDi feature. – A transmission tower, microwave oven or other electromagnetic generating device can cause a scrambled screen. Keep the product away from such devices as much as possible.
Can I update the software driver while in WiDi mode?	If you update or delete the wireless/graphic software driver while using WiDi to wirelessly connect between the product and the laptop computer, the WiDi adapter will be disconnected leading to a system failure. Remove the WiDi connection before updating the software driver.
If the adapter is disconnected, no sound will be output from the program.	Exit the program and adjust the volume of the laptop computer manually.
If you change the WiDi-based wireless LAN settings, you may encounter a temporary scrambled or disconnected adapter.	Do not change the wireless LAN settings while in WiDi mode.
If the product is too far away from the laptop computer, the playback performance of the product will deteriorate accordingly.	It is recommended maintaining the ideal distance between them.

Other Information

Issues	Solutions and Explanations
How can I access the extended video feature in WiDi mode?	If the TV supports 1080p HD video but your laptop computer does not, you can still play a 1080p HD video on the TV. To take advantage of the extended video (1080p HD) feature in WiDi mode, follow the steps below: **1.** Use the Windows key + P key combination on the keyboard to select Extend. This will switch the mode to Extended Desktop mode. **2.** Change the screen resolution to 1920x1080 for the extended desktop mode. **3.** Move the video player to the extended desktop screen. **4.** Maximize the video player screen before playing the 1080p video source.
In WiDi mode, the mouse pointer seems to move slowly.	Since WiDi will have a 0.3 second delay in processing the signal, you may encounter a slower reaction of the keyboard and the mouse. In a mode that requires a faster reaction such as a PC game, use a wired connection such as PC/HDMI mode rather than WiDi.
I want to change the size of the WiDi screen.	In WiDi mode, only the original size of the video source is supported.
How can I obtain the WiDi software driver?	Consult with the manufacturer of your laptop computer. The software driver downloaded from the Intel ® homepage may not work properly. For more information about the specifications, the latest software driver and other related tools, contact the manufacturer of your laptop computer.
When I change the screen resolution, I experience temporary interference on the screen.	If you change the screen resolution in WiDi mode, you may encounter temporary interference on the screen.
I cannot resize the video screen on the TV with the WiDi program on my laptop computer.	The resizing menu of the WiDi program is only enabled with a separate external WiDi adapter. The product is not compliant with the adapter.
I have searched for available WiDi adapters on my laptop but cannot establish a connection.	WiDi can be greatly affected by the wireless communications environment. This is why you may encounter a connection failure from time to time. Please try again in a moment.
The full HD (1920 X 1080) video displays blurry characters.	WiDi by its nature, displays the video in a downsized resolution. To improve the sharpness, contact the manufacturer of your laptop computer for the latest software driver.

Other Information

Issues	Solutions and Explanations
MHL Connection	
How can I change the size of MHL?	The product only supports Screen Fit when you using MHL function.
MHL charging seems slow.	The monitor supports 500mA for charging purposes (MHL 1.1). If the mobile device is on, charging the product fully takes more time due to battery consumption. Therefore, it is recommended turning off the mobile device for faster charging.
There is white space on the edge of screen.	Even though the monitor displays 100% of the screen, since some mobile devices transmit a downscaled image, there could be some white space on the monitor. This is not a monitor problem but an issue caused by the downscaled image from the mobile device. (This issue happens with HCT devices).
When playing a video file, pressing ▶, ■, ◀◀, ▶▶ buttons on the remote do not work on mobile devices.	Some mobile devices do not support the remote control feature. If a monitor cannot control the mobile device, it is not a monitor problem. Some applications and games also do not support the remote control feature and this is also not a monitor problem.
Anynet+ (HDMI-CEC)	
Anynet+ does not work.	Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only. You can connect only one receiver (home theater). Check if the Anynet+ device power cord is properly connected. Check the Anynet+ device's Video/Audio/HDMI cable connections. Check whether Anynet+ (HDMI-CEC) is set to On in the Anynet+ setup menu. Check whether the product remote control is in TV mode. Check whether the remote control is Anynet+ compatible. Anynet+ doesn't work in certain situations. (Searching channels, operating Smart Hub or Setup, etc.) If you have removed and then reconnected the HDMI cable, please make sure to search devices again or turn your product off and on again.
I want to start Anynet+.	Check if the Anynet+ device is properly connected to the product and check if the Anynet+ (HDMI-CEC) is set to On. (System → Anynet+ (HDMI-CEC)) Open the Tools menu using your remote and then select Anynet+ (HDMI-CEC). Then select a menu you want.
I want to exit Anynet+.	Select View TV in the Anynet+ menu. Go to Source screen using your remote and select a non-Anynet+ device.
The message Connecting to Anynet+ device ... appears on the screen.	You cannot use the remote control when you are configuring Anynet+ or switching to a view mode. Use the remote control after the product has completed Anynet+ configuration or has finished switching to Anynet+.

Other Information

Issues	Solutions and Explanations
The Anynet+ device does not play.	You cannot use the play function when Setup is in progress.
The connected device is not displayed.	Check whether or not the device supports Anynet+ functions. Check whether or not the HDMI cable is properly connected. Check whether Anynet+ (HDMI-CEC) is set to On. (System → Anynet+ (HDMI-CEC)) Search Anynet+ devices again. Anynet+ requires an HDMI connection. Make sure the device is connected to your product with an HDMI cable. Some HDMI cables may not support Anynet+ functions. If the connection is terminated because there has been a power failure or the HDMI cable has been disconnected, please repeat the device scan.
The product sound is not output through the receiver.	Connect the optical cable between product and the receiver. The ARC function enables digital output of sound using the **HDMI IN 2 (MHL / ARC)** port and can only be operated when the product is connected to an audio receiver that supports the ARC function.
AllShare Play	
This file may not be playable properly.	This may appear because of high bit rate of content. Content generally will play but could experience some playability issue.
Smart Hub	
Some application contents only appear in English. How can I change the language?	The Application content language may be different from the application user interface language. The ability to change the language depends on the service provider.
Some application services do not work.	Check with the service provider. Refer to the help website for application service provider information.
When a network error occurs, I can only use the setting menu.	If network connection doesn't work, your service might be limited, as all functions except the setting menu are needed to connect to the internet. ✎ Watch these troubleshooting on video at www.samsung.com/spsn

✎ Some functions and pictures shown in this manual are available on specific models only.

✎ To keep your product in optimum condition, upgrade to the latest firmware on the Samsung web site by USB (samsung.com → Support → Downloads).

Other Information

Web Browser

1. To open Web Browser, select Web Browser in the Smart Hub. The Web Browser may be displayed differently with PC.
2. The Web Browser is not compatible with a Java application.
3. When attempted to download a file, but the file could not be saved and an error message appeared.
4. Access may be blocked to some websites or to web browsers operated by certain businesses.
5. Playback of Flash video may be restricted.
6. E-commerce, for purchasing products online, is not supported.
7. Scrolling a web page that allows only part (and not the whole) of the page to be scrolled may cause corrupted characters.
8. ActiveX is not supported.
9. Some options cannot be accessed in Link Browsing mode. (To access such options, switch to Pointer Browsing mode.)
10. Some text may appear corrupted because the number of supported fonts is limited.
11. The response to a command on the remote or the screen display may be delayed temporarily if a web page is currently loading.
12. The loading of a web page may delay or stop with some operating systems.
13. Copy and Paste are not supported.
14. When writing emails or posting messages, some functions (Such as changing the size or colors.) may not be supported.
15. The number of bookmarks and logs that can be saved is limited.
16. The maximum number of windows that can open at the same time may vary depending on the browsing condition or product model.
17. The web browsing speed depends on the network conditions.
18. PIP will automatically be deactivated if a video is played in the browser. Videos may not commence playback after PIP interruption and a possible refresh for the page may be required.
19. The Web Browser can play MP3 audio files only.
20. The function for importing or exporting bookmarks is compatible with bookmark files in a particular file format only. (Compatible format: Netscape-bookmarkfile- 1)
21. When you import or export the bookmark, the folder tree is not included.
22. If you import the bookmark file to a Computer from a TV, the bookmark file will be saved in “Samsung SmartTV Bookmark” folder.
23. If the time is not set in the menu (System → Time → Clock), the history information may not be saved.
24. Visited web site history is saved in chronological order and It will be removed from the list according to oldest page accessed.
25. Some video or audio content may not play during Flash playback depending on the video/audio codec supported.

Other Information

Supported Subtitle and AllShare Play file formats

Subtitle

External

- MPEG-4 timed text (.ttxt)
- SAMI (.smi)
- SubRip (.srt)
- SubViewer (.sub)
- Micro DVD (.sub or .txt)
- SubStation Alpha (.ssa)
- Advanced SubStation Alpha (.ass)
- Powerdivx (.psb)

Internal

- **Xsub**

  Container: AVI
- **SubStation Alpha**

  Container: MKV
- **Advanced SubStation Alpha**

  Container: MKV
- **SubRip**

  Container: MKV
- **MPEG-4 timed text**

  Container: MP4

Supported image resolutions

File Extension	Type	Resolution
*.jpg	JPG	15360 x 8640
*.png	PNG	1920 x 1080
*.bmp	BMP	1920 x 1080
*.mpo	MPO	15360 x 8640

Other Information

Supported music file formats

File Extension	Type	Codec	Comments
*.mp3	MP3	MPEG1 Audio Layer 3	
*.m4a *.mpa *.aac *.3ga	MPEG4	AAC	
*.flac	FLAC	FLAC	The Seek (jump) function is not supported. Supports up to 2 channel
*.ogg	OGG	Vorbis	Supports up to 2 channel
*.wma	WMA	WMA	WMA 10 Pro supports up to 5.1 channel. WMA lossless audio is not supported.

Video Codec

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec
*.avi *.mkv *.asf *.wmv *.mp4 *.3gp *.vro *.mpg *.mpeg *.ts *.tp *.trp *.m2ts *.mts *.webm *.divx	AVI MKV ASF MP4 3GP VRO VOB PS TS WebM	DIVX 3.11/4.x/5.x/6.1	1920 x 1080	6 – 30	30	AC3 LPCM ADMPCM(IMA, MS) AAC HE-AAC WMA DD+ MPEG(MP3) DTS Core Vorbis
		MPEG4 SP/ASP				
		H.264 BP/MP/HP				
		Motion JPEG	640 x 480		8	
		Window Media Video v9	1920 x 1080		30	
		MPEG2				
		MPEG1				
		VP8				
		VP6	640 x 480		4	

Other Information

Other Restriction

- ✎ Video content will not play, or not play correctly, if there is an error in the content or the container.
- ✎ Sound or video may not work if the contents have a standard bit rate/frame rate above the compatible Frame/sec listed in the table above.
- ✎ If the Index Table is in error, the Seek (Jump) function is not supported.
- ✎ When you play video over a network connection, the video may not be played smoothly.
- ✎ The menu may take longer to appear if the video's bit rate exceeds 10Mbps.
- ✎ Some USB/digital camera devices may not be compatible with the player.

Video decoder

- Supports up to H.264, Level 4.1.
- H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 and AVCHD are not supported.
- For all Video codecs except MVC, VP8, VP6:
  - Below 1280 x 720: 60 frame max
  - Above 1280 x 720: 30 frame max
  - GMC is not supported.
- Supports only SVAF Top/Bottom and Side by Side.
- Supports only BD MVC Spec.

Audio decoder

- WMA 9, 10 Pro supports up to 5.1 channel and M2 profile (except LBR mode of M0).
- WMA lossless audio is not supported.
- If Vorbis is only in Webm container, supports up to 2 channel.

Other Information

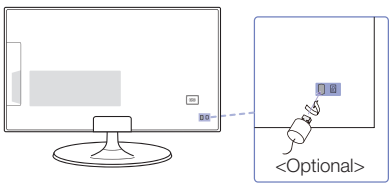
Anti-theft Kensington Lock

A Kensington Lock is a device you can use to physically fix your product in place when using it in a public place.

You wrap the Kensington Lock's cable around a large, immobile object and then attach the lock to the Kensington slot on the back of the product.

The appearance and locking method may differ from the illustration below depending on the manufacturer. Refer to the manual provided with the Kensington Lock for additional information on proper use. The Kensington Lock is not supplied by Samsung.

✎ Please find a "🔒" icon on the rear of the product. The Kensington slot is beside the "🔒" icon.



To lock the product, follow these steps:

1. Wrap the Kensington Lock cable around a large, stationary object such as desk or chair.
2. Slide the end of the cable with the lock attached through the looped end of the Kensington Lock cable.
3. Insert the locking device into the Kensington slot on the product.
4. Lock the lock.

✎ These are general instructions. For exact instructions, see the User manual supplied with the locking device.

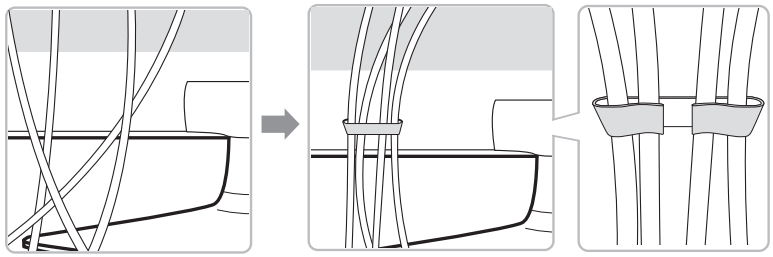
✎ The locking device has to be purchased separately.

✎ The location of the Kensington slot may be different depending on the product model.

Other Information

Assembling the Cables

Use the Cable Holder to hide the cables behind the stand.

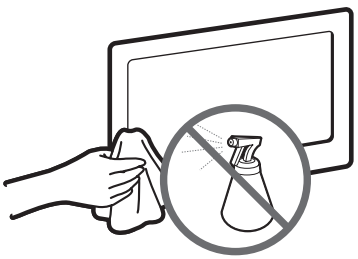


✎ The color and the appearance may differ depending on the product, and the specifications are subject to change without prior notice to improve the performance.

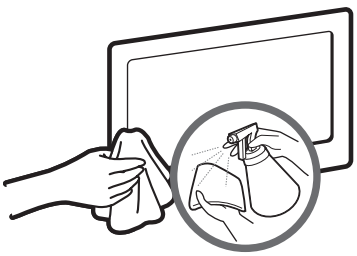
Storage and Maintenance

✎ If a sticker was attached to the product screen, some debris can remain after you remove the sticker. Please clean the debris off before watching product.

✎ The exterior and screen of the product can get scratched during cleaning. Be sure to wipe the exterior and screen carefully using the cloth provided or a soft cloth to prevent scratches.



Do not spray water directly onto the product. Any liquid that goes into the product may cause a failure, fire, or electric shock.



Clean the product with a soft cloth dampened with a small amount of water. Do not use a flammable liquid (e.g. benzene, thinners) or a cleaning agent.

Other Information

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Covered by one or more of the following U.S. patents: 7,295,673; 7,460,668; 7,515,710; 7,519,274

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Open Source License Notice is written only English.

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Other Information

Specifications

Environmental considerations	Operating	Temperature : 32°F ~ 122°F (0°C ~ 50°C) Humidity : 10 % ~ 80 %, non-condensing
	Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C) Humidity : 5 % ~ 95 %, non-condensing
Tilt		-1° (±1°) ~ 20°(±1°)
Model Name		T27B550
Screen Size (Diagonal)		27" Class (68 cm)
Display Resolution		1920x1080 @ 60Hz
Sound (Output)		7W × 2
Dimensions (W x H x D)	With stand	25.5 x 18.3 x 9.9 inches (650.0 x 467.0 x 252.0 mm)
	Body	25.5 x 15.5 x 2.0 inches (650.0 x 394.0 x 53.0 mm)
Weight	With stand	13.0 lbs (5.9 kg)
	Body	11.9 lbs (5.4 kg)

✎ Design and specifications are subject to change without prior notice.

✎ The actual appearance of the product may differ from the images in this manual, depending on the model.

✎ This device is a Class B digital apparatus.

✎ For information about the power supply, and more about power consumption, refer to the label attached to the product.

✎ Typical power consumption is measured according to Energy Star Program requirements for Televisions.

Dispose unwanted electronics through an approved recycler.

To find the nearest recycling location, go to our website:

www.samsung.com/recyclingdirect or call, (877) 278 - 0799

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Contact SAMSUNG WORLDWIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

Country	Customer Care Center ☎	Web Site	Address
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U.S.A	1-800-SAMSUNG (726-7864)	www.samsung.com	Samsung Electronics America, Inc. 85 Challenger Road Ridgefield Park, NJ 07660
MEXICO	01-800-SAMSUNG (726-7864)	www.samsung.com	C.P 11570 AV. Presidente Masaryk No.111, Int. 701 Col. Chapultepec Morales, Delegacion Miguel Hidalgo Mexico D.F

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